SONY-00920

IF SOA

AEP Model



STEREO TAPECORDER

SPECIFICATIONS

Power Requirements:

AC 110, 127, 220, or 240 V, 50/60 Hz

Power Consumption:

Track System:

Four-track two-channel stereo and

monaural

Reels:

270 mm (10½ inches) or smaller

Tape Speed: Recording Time: 19 cm/s (7½ ips), 9.5 cm/s (3¾ ips) 6 hours total at 9.5 cm/s (3% ips),

stereo recording, with 1,100 m (3360 ft.) tape of 270 mm (10½

inch) reel

Frequency Response:

With Sony Ferri-Chrome Tape 30-27,000 Hz at 19 cm/s (7½ ips) 30-18,000 Hz at 9.5 cm/s (3% ips)

With SLH tape

30-25,000 Hz at 19 cm/s (7½ ips) 30-16,000 Hz at 9.5 cm/s (3% ips)

With Regular Tape

30-20,000 Hz at 19 cm/s (7½ ips) 30-13,000 Hz at 9.5 cm/s (3% ips)

Signal-to-Noise Ratio:

58 dB with Sony Ferri-Chrome Tape

Wow and Flutter:

±0.07 % at 19 cm/s (7½ ips) ±0.10% at 9.5 cm/s (3% ips)

Record Bias Frequency:

Approximately 160 kHz

Equalization:

NAB standard

Total Harmonic

0.8 % Distortion:

Fast Winding Time:

2 min. 30 sec. with 740 m tape (10% inch reel)

MIC (2) Inputs:

Impedance:

low -72 dB (0.2 mV)

Maximum sensitivity: LINE IN (2)

Impedance: Maximum sensitivity:

 $100\,k\Omega$ -22 dB (60 mV)

Outputs:

LINE OUT (2) Impedance:

10kΩ or more

With $100 \, k\Omega$ load PB LEVEL control

Level

-5 dB (0.44 V)

detent position

0dB (0.775 V) **HEADPHONES**

Impedance:

8 Ω

MAX

REC/PB (DIN)

Connector:

Input impedance: Output impedance:

Less than 10k SO Less than 10k SΩ

Dimensions:

435 (w) x 451 (h) x 221 (d) mm $17\frac{1}{8}$ (w) x $17\frac{3}{4}$ (h) x $8\frac{3}{4}$ (d) inches

Weight:

24 kg, 52 lb 15 oz



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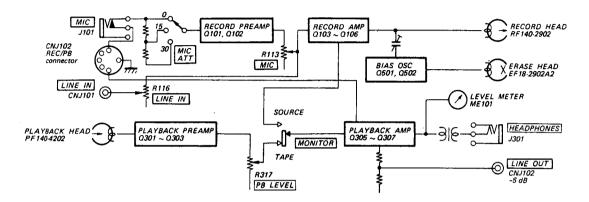
When ordering replacement parts, use PART NUMBERS listed in Parts Lists or shown in EXPLODED VIEWS.

Parts List reference numbers should not be used.

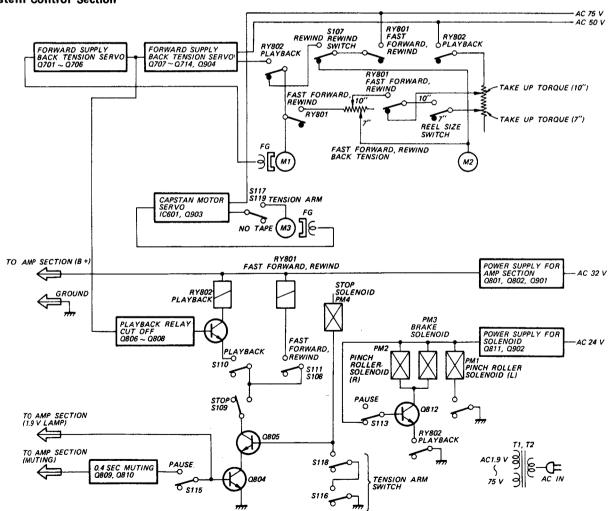
SECTION 1 DIAGRAMS

1-1. BLOCK DIAGRAMS

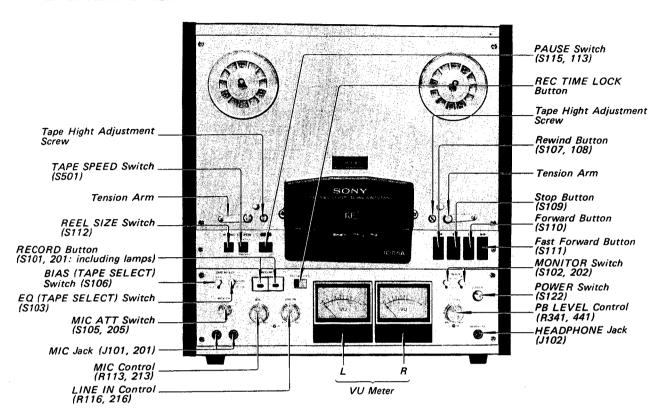
Amp Section



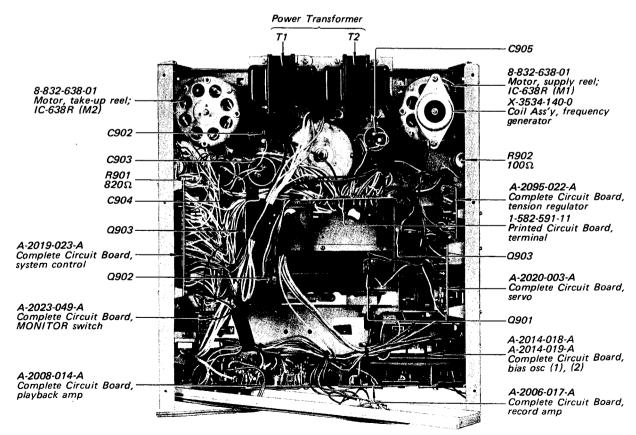
System Control Section



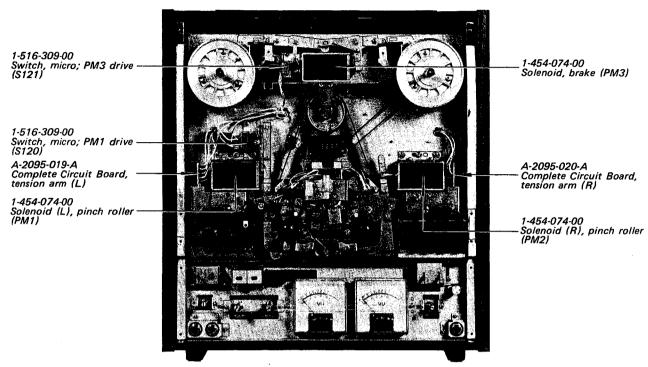
1-2. EXTERNAL VIEW



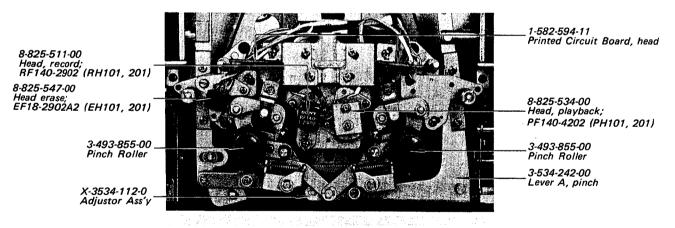
1-3. INTERNAL VIEW (1)



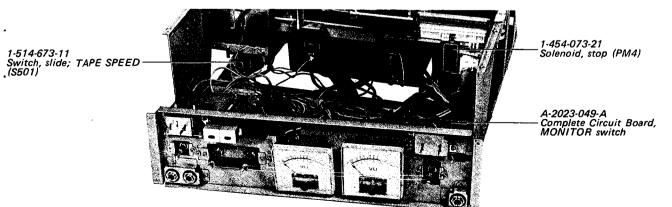
1-4. INTERNAL VIEW (2)



1-5. INTERNAL VIEW (3)

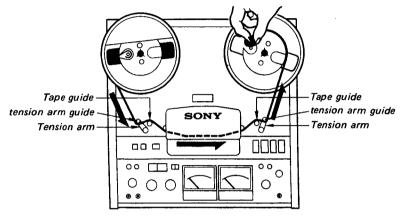


1-6. INTERNAL VIEW (4)



1-7. NOTES ON OPERATION

- 1. For 270 mm (10½ inch) metal reel, use a reel spacer and a Sony Reel Adaptor RAD-10.
- Thread a tape as illustrated. Be sure to pass the tape under the tension-arm guides, and above the tape guides.



- For protection against the high bias voltage the upper head cover is fastened with the two head cover bosses.
- 4. Set the BIAS and EQ (TAPE SELECT) switches according to the tape used.

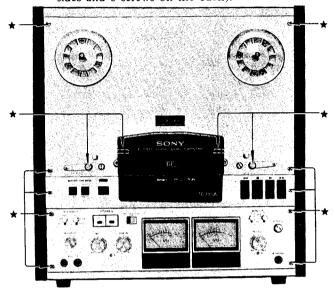
Tapes	BIAS	· EQ
SONY PR other regular tapes	NORMAL	NORMAL
SONY SLH MAXELL LNE 35 BASF 35 LH SCOTCH 212, CLASSIC TDK SD 150 AGFA PE 36 other Low-noise High-output tapes	NORMAL	SPECIAL
Sony Ferri-Chrome Tape	NORMAL	Fe-Cr
SCOTCH 206, 218	HIGH	NORMAL

- Do not leave the TC-755A in PAUSE mode for a long time, since the normal rated voltages are still applied to the reel motors in PAUSE mode. Place the TC-755A in stop mode instead.
- 6. REC TIMER LOCK button can be moved to the right only when L and/or R RECORD buttons are pushed in stop mode. Once the RECORD buttons are locked, they cannot be released and remain illuminated even though any function button (stop, fast forward, rewind or forward button) is pushed. The TC-755A can be placed in record mode only by pushing the forward button, but not by pushing the stop, fast forward or rewind button.
- Before setting the timer-activated recording, be sure to turn POWER switch OFF. Otherwise the tension arms may be turned OFF by the momentary tape slack and the TC-755A may be placed in stop mode.
- 8. PB LEVEL controls adjust the playback signal level at the LINE OUTputs and the HEAD-PHONE jack. This adjustment reflects on VU meters with a 0 VU reading corresponding to 0.43 volt output. During normal use, set the inner knob (R channel) to the center click position and align the outer knob (L channel) with the inner knob.
- The TC-755A is designed only for vertical use, and therefore no rubber feet are provided for horizontal use.
- All function buttons except the stop button have self lock mechanisms.

1-8. NOTES ON REPAIR

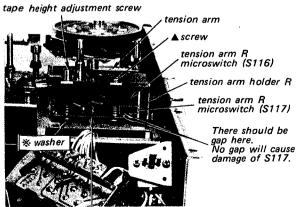
1. Disassembly

To remove the reel panel, unscrew the 14 screws indicated by \star in the photo below. To remove the cabinet, unscrew the 10 screws attached to the cabinet (4 screws on both sides and 6 screws on the back).



2. When turning the tape height adjustment screw, the following precaution must be taken: After the screw is turned clockwise as far as it will go, it must not be turned counterclockwise more than 3½ turns. The tape height may be adjusted with this screw within these limits. If the screw is turned beyond these limits, the washer indicated by * will be damaged. (See photo.)

The screw indicated by \triangle has been adjusted at the factory and should not be turned. If, however, it happens to be turned, care must be taken that the microswitch (S117) is not touched by the tension arm spacer even if the tape height adjustment screw is turned within the limits mentioned above. Otherwise S117 will be damaged.



tension arm spacer

SECTION 2 ADJUSTMENTS

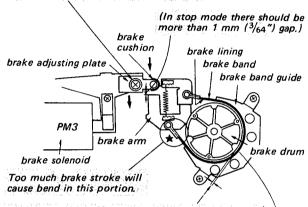
2-1. MECHANICAL ADJUSTMENTS

1. Brake Adjustment (1)

Perform this adjustment for both left and right brakes. After the adjustment, apply locking compound to the adjusted screw.

- Playback mode -

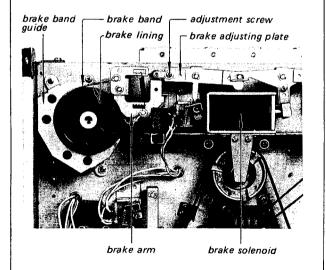
adjustment screw Adjust the brake adjusting plate for the appropriate brake stroke. - Right side --



In playback mode (When PM3 solenoid is energized,) the gap between the brake drum and the brake lining should uniformly be more than 0.5 mm ($^{1}/_{32}$ ").

In playback mode (When PM3 solenoid is energized,) the brake band should uniformly contact the brake band guide.

- Left side -



2. Brake Adjustment (2)

Perform this adjustment for both left and right brakes. After the adjustment, apply locking compound to the adjusted screw.

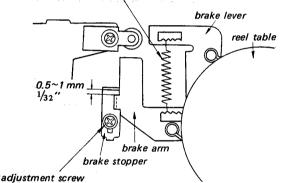
Specification:

Take-up Reel	Supply Reel	Brake Torque
clockwise	counterclockwise	1,800~2,500 g·cm (25.0~34.8 oz·inch)
counterclockwise	clockwise	600~700 g·cm (8.3~9.7 oz·inch)

- Stop mode -

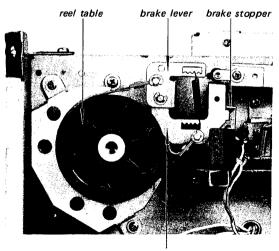
- Right side -

Change the hooking position of the spring for the specified brake torque.



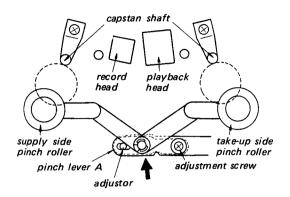
– Left side –

Adjust the brake stopper for the specified clearance.

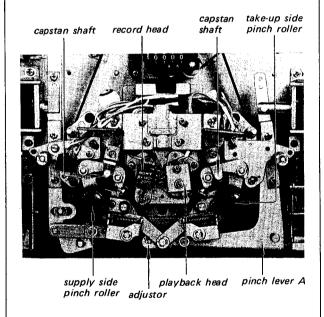


brake arm

3. Adjustor Adjustment

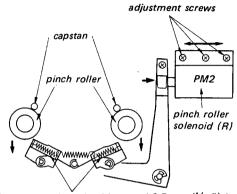


In playback mode and with PAUSE switch to ON, slowly push the pinch lever A in the direction shown by the arrow. When the supply side pinch roller contacts the capstan shaft and starts to rotate, the gap between the take-up side pinch roller and the capstan shaft should be less than $0.5 \, \mathrm{mm} \, (^1/_{64}")$, so that the take-up side pinch roller starts rotating slightly after or almost simultaneously with the start of the supply side pinch roller, if necessary, adjust the adjustor.



4. Pinch Roller Solenoid (R) (PM2) Position Adjustment

After the adjustment, apply locking compound to the adjusted screws.



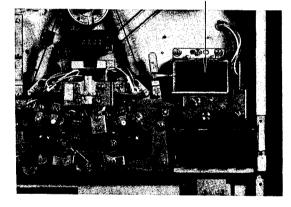
These two springs should expand 0.5 mm ($^{1}/_{64}$ ") longer after the pinch rollers contact the capstans in playback mode. If necessary, adjust the PM2 solenoid position.

Specification for your reference:

Pinch roller pressure: $1000 \,\mathrm{g} \sim 1600 \,\mathrm{g}$ (2 lb 3 oz \sim

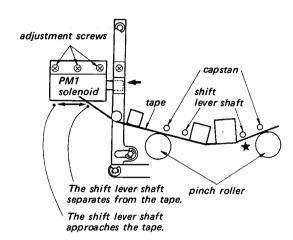
3 lb 8 oz)

pinch roller solenoid (R) (PM2)



Pinch Roller Solenoid (L) (PM1) Position Adjustment

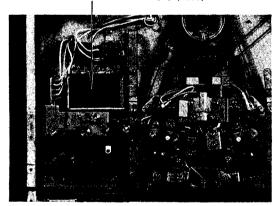
After the adjustment, apply locking compound to the adjusted screws.



With a tape threaded along the tape path and in playback mode (PM1 solenoid should be energized), turn PAUSE switch ON. At this time the shift lever shafts should not contact the tape and the pinch rollers should separate from the capstans. If necessary, adjust the PM1 solenoid position.

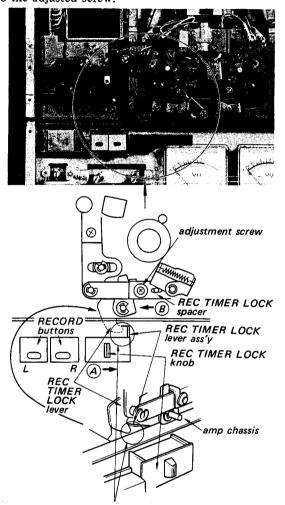
Note: The shift lever shaft indicated by ★ in the above figure may slightly contact the tape but the other one should not.





6. RECORD Button Lock Adjustment

After the adjustment, apply locking compound to the adjusted screw.



Push L and R RECORD buttons, move REC TIMER LOCK knob in the direction shown by arrow (A) and then push the 'forward' button.

At this time REC TIMER LOCK lever should slightly contact REC TIMER LOCK lever ass'y as shown.

If necessary, adjust the REC TIME LOCK spacer.

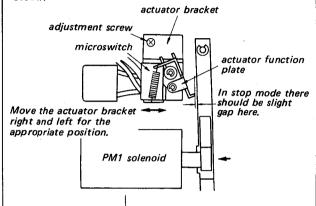
Note:

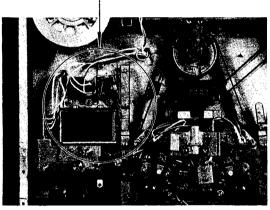
After the adjustment, and with the L and R RECORD buttons pushed and the REC TIMER LOCK knob pushed in the direction shown by arrow (A), and also the forward button pushed, make sure of the following functions.

- RECORD buttons cannot be released by releasing REC TIMER LOCK knob.
- 2. REC TIMER LOCK knob cannot be released by moving the REC TIMER LOCK knob further in the direction shown by the arrow (A).
- Push L and R RECORD buttons and then push forward button. At this time the RECORD buttons should not be released.
- In stop mode L and R RECORD buttons should be released.
- When L and R RECORD buttons are released, REC TIMER LOCK knob cannot be moved in the direction shown by the arrow (A).

7. Actuator Adjustment (1)

Perform this adjustment after the Pinch Roller Solenoid (L) (PM1) Position Adjustment. After the adjustment, apply locking compound to the adjusted screw.

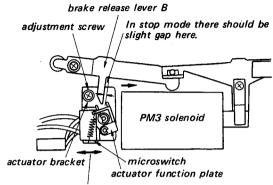




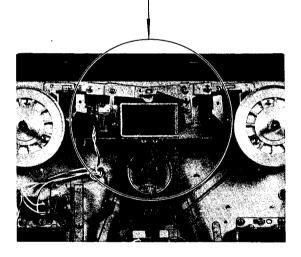
Note: The microswitch should turn OFF (click) in 0.5 to 2 seconds after forward button is pushed.

8. Actuator Adjustment (2)

Perform this adjustment after the Brake Adjustments (1) and (2). After the adjustment, apply locking compound to the adjusted screw.



Move the actuator bracket right and left for the appropriate position.



Note: The microswitch should turn OFF (click) in 0.5 to 2 seconds after forward button is pushed.

9. Fast Forward and Rewind Back-Tension Adjustment

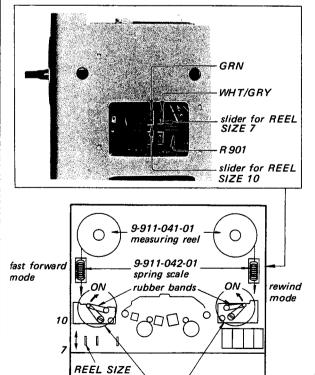
- 1. Supply the rated power voltage.
- 2. Fasten the tension arms with rubber bands as shown, thus activating them.
- 3. Pull the spring scale at a speed of between 9.5 cm/s to 19 cm/s in the direction shown by the arrow for rewind or fast forward mode with REEL SIZE switch at "7" and "10". Measure the back tension torque for rewind and fast forward modes. Torques should be as shown in the following table.

Specification:

Mode	REEL SIZE Switch	Back-Tension Torque
	10	110 to 140 g·cm (1.53 to 1.95 oz·inch)
rewind	7	80 to 100 g·cm (1.11 to 1.39 oz·inch)
fast forward	10	110 to 140 g·cm (1.53 to 1.95 oz·inch)
	7	80 to 100 g·cm (1.11 to 1.39 oz·inch)

If necessary, adjust the torque by moving the sliders of the adjustable resistor (R901).

- Right side -



Fasten the tension arms with rubber bands to operate the unit.

switch

10. Playback Take-up Torque Adjustment

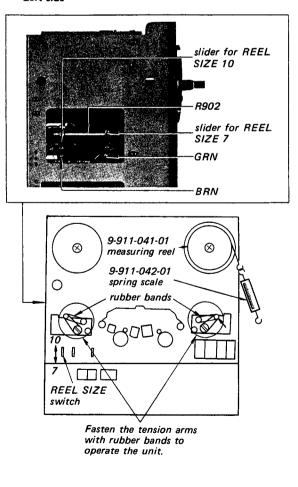
- 1. Supply the rated power voltage.
- 2. Fasten the tension arms with rubber bands as shown, thus activating them.
- 3. Turn the TAPE SPEED switch to "19 cm 7½."
- 4. Place the unit in playback mode.
- 5. Pull the spring scale in the direction shown by the arrow and measure the take-up torque with REEL SIZE switch at "10" and "7". Torques should be as shown in the following table.

Specification:

REEL SIZE switch	Take-up Torque
10	580 to 620 g·cm (8.06 to 8.61 oz·inch)
7	280 to 320 g·cm (3.89 to 4.44 oz·inch)

If necessary, adjust the torque by moving the sliders of the adjustable resistor (R902).

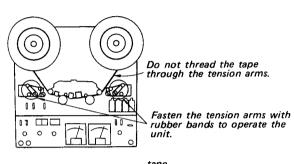
- Left side -

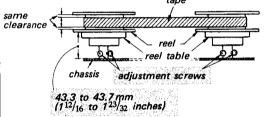


11. Reel Table Height Adjustment

After the adjustment, apply locking compound to the adjusted screws.

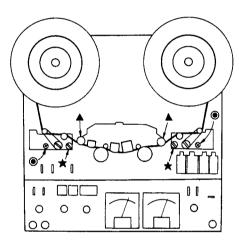
- 1. Thread the tape from a 180 mm (7 inches) plastic reel as shown.
- 2. Fasten the tension arms with rubber bands as shown.
- 3. Adjust the reel table height so that the tape travels in the center of both reel flanges in fast forward and rewind modes.





12. Tape Guides Adjustment (1)

- 1. Thread the tape from a 180 mm (7 inches) plastic reel as shown.
- 2. Turn the two screws indicated by ★ counterclockwise until it stops, and then turn them clockwise in 1¾ turns.
- 3. Turn the two screws indicated by
 so that the tape travels in the center of both reel flanges in rewind and fast forward modes.
- 4. Turn the two tape guides indicated by A, for fine adjustment, so that the tape travels in the center of the guides without tape curl in playback mode.
- 5. When the tape curls, repeat the above steps.

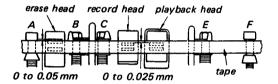


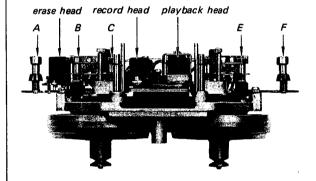
13. Tape Guide Adjustment (2)

Perform this adjustment after the reel table height adjustment and the tape guides adjustment (1) are completed. Tape should not curl at each tape guide B, C, and E.

Note: 1. Make sure that the three heads are correctly positioned as specified. If necessary, perform the head height adjustments on page 19 and 21.

If all the tape guides B, C and E are not correctly positioned, adjust them so that the tape travels in the center of the pinch roller.

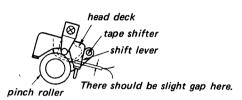




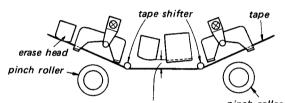
14. Tape Shifter Position Check.

Perform this check for both left and right shifters with the unit in horizontal position.

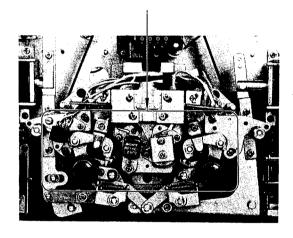
1. In playback mode the shift levers should not touch the head deck.



2. At tape end in rewind and fast forward modes, there should be more than 2 mm (3/32 inch) gap between the tape and the record and playback heads. At this time the tape may touch the erase head.

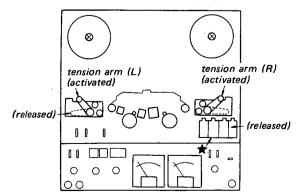


There should be more than 2 mm pinch roller ($^{3}/_{32}$ inch) gap here.



15. Function Switch Operation Check

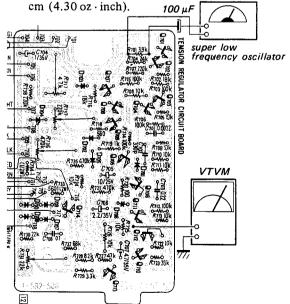
- Push the POWER switch ON with the tension arms released. Next push each function button.
 No operation should take place, and each function button should not lock.
- 2. When the tension arm L and/or R are activated, the stop solenoid should be de-energized. The solenoid can be seen when looked at in the direction of the arrow indicated by ★. When the solenoid is de-energized, a click can be heard
- 3. Activate the tension arm L or R, and make sure of the following functions.
 - 3-1. Push the forward button. The button should lock. When the activated tension arm is released, the locked button should release itself
 - 3-2. Push the forward button. Then push the stop button. At this time, the locked forward button should release itself.
 - 3-3. Push the forward button. Then push the POWER switch OFF. The locked forward button should remain locked. Next push the POWER switch ON. The forward button should still remain locked.
 - 3-4. Push the fast forward button. The button should lock. When the activated tension arm is released, the locked button should release itself.
 - 3-5. Push the fast forward button. Then push the stop button. At this time the locked button should release itself.
 - 3-6. Push the rewind button. The button should lock. When the activated tension arm is released, the locked button should release itself.
 - 3-7. Push the rewind button. Then push the stop button. At this time the locked button should release itself.



16. Tension Regulator Adjustment (Not normally performed)

Note: For this adjustment a super low frequency oscillator (3 Hz to 10 Hz) is required. Without the oscillator, do not perform this adjustment and only replace the defective parts. When adjusting adjustable resistors, turn them in the direction of increasing torque, so that the torque rises to the specified value.

- 1. Supply the rated power voltage.
- Unsolder the three lead wires of the FG (frequency generator) coil in the supply reel motor M1, connect a super low frequency oscillator of 1 Vp-p output across R701 through a 100 μF electrolytic capacitor.
- 3. Set TAPE SPEED switch to "9.5 cm 3¾" and REEL SIZE switch to "10".
- 4. Adjust the oscillator frequency so that the voltage between the emitter of Q712 transistor and the chassis ground is 9 volts in playback mode.
- 5. With the frequency adjusted in step 4, adjust R731 so that the supply motor torque is 250 g. cm (3.47 oz · inch).
- 6. Change the oscillator frequency to 10 Hz and adjust R717 so that the torque is 80 g. cm (1.11 oz · inch).
- 7. Change the oscillator frequency to 3.3 Hz and adjust R736 so that the torque is 310 g cm (4.30 oz inch).
- 8. Repeat steps 6 and 7 once more.
- Set TAPE SPEED switch to "19 cm 7½" and change the oscillator frequency to 6.6 Hz.
 Then adjust R73.7 so that the torque is 310 g.



2-2. ELECTRICAL ADJUSTMENTS

Precaution:

1. Clean the following parts with a swab moistened with alcohol:

record head

pinch roller

playback head

rubber belts

erase head

idlers

capstan

tape guides

- 2. Demagnetize record, playback and erase heads with a head demagnetizer.
- Do not use magnetized screwdriver for adjustments.
- 4. After adjustments, apply locking compounds to the adjusted parts.
- Adjustments should be performed in the order listed in this service manual.
- 6. Adjustments and measurements should be performed for each L and R channel with the rated power supply voltage unless otherwise specified.
- 7. Switches and controls, which are not given in "Settings" for the each adjustment, can be set in any modes or positions. Power switch, however, should be ON unless otherwise

Test Equipment/Tools Required:

audio oscillator (af osc)

VTVM

VOM

attenuator (600 Ω)

digital frequency counter or speed checker (SONY LFM-30)

oscilloscope

resistors: 600Ω , $10 k\Omega$, $100 k\Omega$

SONY test tape

J-19-F2

Tone:	1	2	3	4	5	6	7
Frequency: (Hz)	400	400	10 k	12.5 k	7 k	80	40
Level (dB):	0	-10	-10	-10	-10	-10	-10

J-19-A2 (12.5 kHz, -10 dB) SPC-47 (4 kHz, 0 dB) blank tapes (completely erased)

NPS-1 (for NORMAL record) SLH-S1 (for SPECIAL record)

Normal Input Level

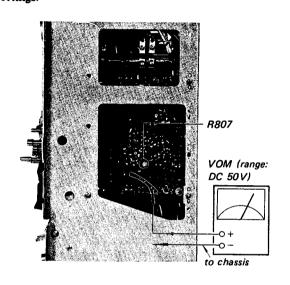
	Impedance	Level
MIC	300 Ω	-60 dB (0.77 mV)
LINE IN	10 kΩ	-10 dB (0.25V)

Normal Output Level

	Load Impedance	Level
LINE OUT	100 kΩ	-5 dB (0.44 V)
HEADPHONES	8 Ω	-28 dB (31 mV)

1. B + 25 V Adjustment

Settings:



Procedure:

Adjust R807 for 25 V DC on VOM.

Note: The ripple voltage should be less than 1 mV p-p.

2. Tape Speed Adjustment

Settings:

REEL SIZE switch:

TAPE SPEED switch: 19 cm, 71/2 and 9.5 cm, 31/4

EQ (TAPE SELECT)

switch:

NORMAL

MONITOR switch:

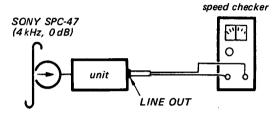
TAPE

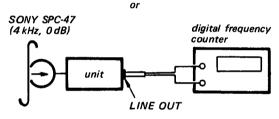
PB LEVEL control:

mechanical mid

Procedure:

Mode: playback

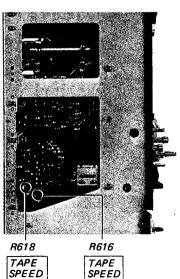




TAPE		Sp	ecification
SPEED	Adjust	speed checker	digital fre- quency counter
19 cm, 7½	R616	-1 ~ +1%	3,960 ~ 4,040 Hz
9.5 cm, 3 ¾	R618	-1 ~ +1%	1,980 ~ 2,020 Hz

Adjustment Location:

9.5 cm



19 cm

3. Meter Level Adjustment

Settings:

EQ (TAPE SELECT)

switch:

NORMAL

MONITOR switch:

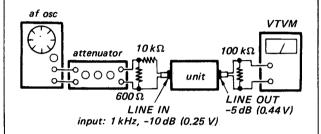
SOURCE

PB LEVEL control:

mechanical mid

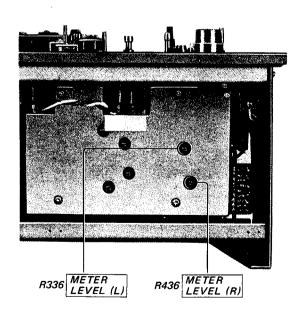
Procedure:

- Calibrate the level meters for 0% indication with POWER switch OFF.
- Adjust LINE IN control for -5 dB (0.44 V).



3.

Adjust	Remarks
R336 (L channel)	
R436 (R channel)	0 VU on the level meters



4. Playback Head Angle Adjustment

Settings:

REEL SIZE switch:

TAPE SPEED switch: 19 cm, 71/2

EQ (TAPE SELECT)

switch:

NORMAL

MONITOR switch:

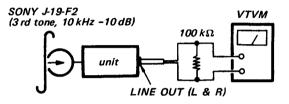
TAPE

PB LEVEL control:

mechanical mid

Procedure:

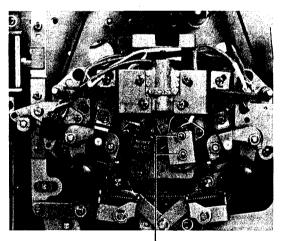
Mode: playback



Loosen the adjustment screws and correctly position the playback head for the highest VTVM reading.

Note: Slightly touch the supply reel and at this time the VTVM reading deviation should be less than 1 dB.

Adjustment Location:



playback head angle adjustment screws.

5. Playback Head Height Adjustment

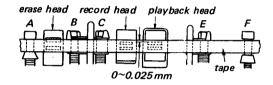
Settings:

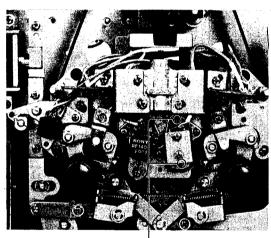
REEL SIZE switch:

TAPE SPEED switch: 19 cm, 7½

Procedure:

Play back a tape and align the tape edge and the playback head core as shown by turning the height and zenith adjustment screws.





playback head height and zenith adjustment screws.

6. Playback Head Azimuth and Phase Adjustments

Settings:

REEL SIZE switch:

TAPE SPEED switch: 19 cm, 71/2

EQ (TAPE SELECT)

switch:

NORMAL

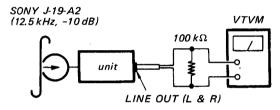
MONITOR switch: TAPE

PB LEVEL control: mechanical mid

Procedure:

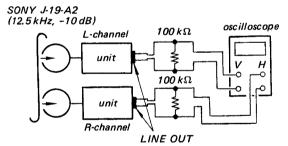
If an oscilloscope is available, employ Procedure 2. If a simplified test is to be made, follow Procedure 1.

1. Mode: playback



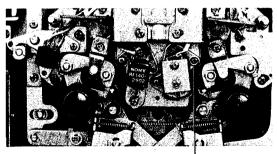
Turn the adjustment screw shown in the photo below for the highest VTVM reading. If the highest peaks for L and R do not coincide, place the adjustment screw to the mechanical mid of the two positions for the peaks.

2. Mode: playback



Adjust		On the oscilloscope		
azimuth adjust- ment screw	in-phase	Ø	90°	more than 90°
		good		wrong

Adjustment Location:



playback head azimuth adjustment screw.

7. Playback Equalizer Adjustment

Settings:

REEL SIZE switch:

7

TAPE SPEED switch:

19 cm, 7½

EQ (TAPE SELECT)

switch:

NORMAL

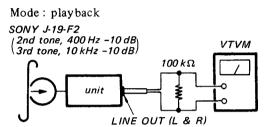
MONITOR switch:

TAPE

PB LEVEL control:

mechanical mid

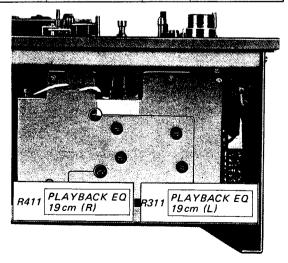
Procedure:



	Adjust	VTVM reading
2nd tone 400 Hz	PB LEVEL control	0 dB (0.775 V)
3rd tone	R311 (L channel)	
10 kHz	R411 (R channel)	-0.5 dB (0.73V)

Specification for your reference in case of a more detailed test:

J-19-F2 (TAPE S	PEED: 19 cm, 7½)	J-9-F1 (TAPE SPEED: 9.5cm, 3%)			
400 Hz	0 dB (standard)	400 Hz	0 dB (standard)		
10 kHz	$-0.5 \pm 1 \text{ dB}$	5 kHz	0 ± 2 dB		
12.5 kHz	$-0.5 \pm 1.5 dB$	3 kHz	0 ± 1.5 dB		
7 kHz	$-0.5 \pm 1.5 dB$	200 Hz	0 ± 1.5 dB		
80 Hz	+2 ± 2 dB	80 Hz	+1 ± 2 dB		
40 Hz	+1.5 ± 2 dB				



8. Playback Level Adjustment

Settings:

REEL SIZE switch:

TAPE SPEED switch: 19 cm, 71/2

EQ (TAPE SELECT)

switch:

NORMAL

MONITOR switch:

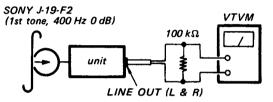
TAPE

PB LEVEL control:

mechanical mid

Procedure:

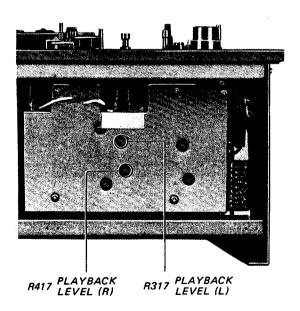
Mode: playback



Adjust	VTVM reading
R317 (L channel)	-5 dB (0.44V)
R417 (R channel)	allowance: ±1 dB

Note: 1. Turn the EQ (TAPE SELECT) switch to SPECIAL position and make sure that the output level lowers by 2.4 ± 1 dB.

2. Difference between L and R channels should be within 1 dB.



9. Record Head Angle Adjustment

Settings:

REEL SIZE switch:

TAPE SPEED switch: 19 cm, 71/2

BIAS (TAPE SELECT)

switch:

NORMAL

EQ (TAPE SELECT)

switch:

NORMAL

MONITOR switch: LINE IN control:

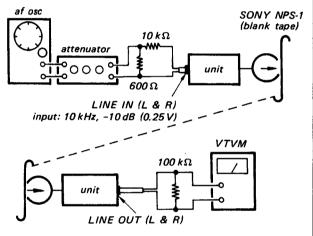
TAPE mechanical mid

PB LEVEL control:

mechanical mid

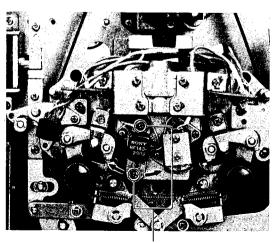
Procedure:

Mode: record and simultaneous playback



Loosen the adjustment screws and correctly position the record head for the highest VTVM reading.

> Note: Slightly touch the supply reel and at this time the VTVM reading deviation should be less than 1 dB.



record head angle adjustment screws

10. Record Head Height Adjustment

Settings:

REEL SIZE switch:

TAPE SPEED switch: 19 cm, 7½

BIAS (TAPE SELECT)

switch:

NORMAL

EQ (TAPE SELECT)

switch:

NORMAL

MONITOR switch:

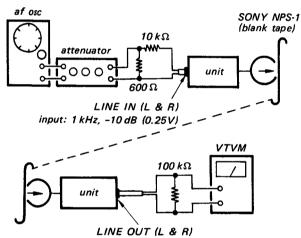
TAPE mechanical mid

LINE IN control: PB LEVEL control:

mechanical mid

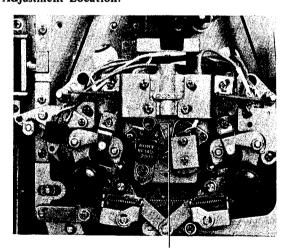
Procedure:

Mode: record and simultaneous playback



Turn the height and zenith adjustment screws for the highest VTVM reading.

Adjustment Location:



record head height and zenith adjustment screws

Record Head Azimuth and Phase **Adjustments**

Settings:

REEL SIZE switch:

TAPE SPEED switch: 19 cm, 7 1/2

BIAS switch:

NORMAL

TAPE SELECT (EO)

switch:

NORMAL

MONITOR switch:

TAPE

LINE IN control:

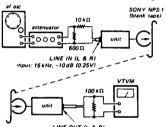
PB LEVEL control:

mechanical mid mechanical mid

Procedure:

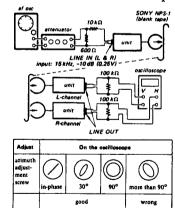
When an oscilloscope is available, employ Procedure 2. When a simplified test is made, follow Procedure 1.

1. Mode: record and simultaneous playback



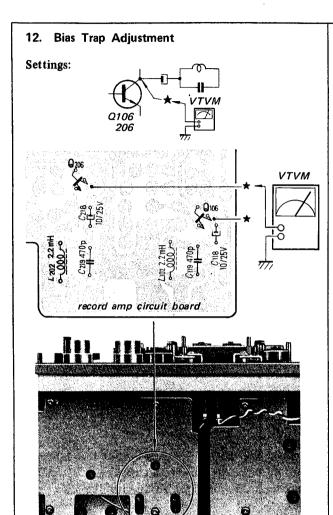
Turn the adjustment screw for the highest VTVM reading. If the highest peaks for L and R do not coincide, place the adjustment screw to the mechanical mid of the two positions for the peaks.

2. Mode: record and simultaneous playback



Note: Difference between the highest levels of L and R and the finally adjusted level should be within 1 dB.

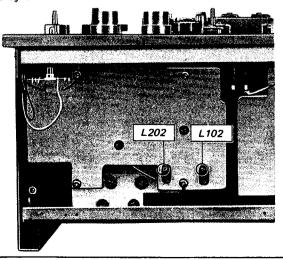




Procedure:

In record mode turn L102 (L-channel) and L202 (R-channel) for the lowest VTVM reading (-40 dB (7.7 mV) or less).

Adjustment Location:



13. Record Bias Adjustment

Settings:

REEL SIZE switch:

TAPE SPEED switch: 19 cm 71/2

BIAS (TAPE SELECT)

switch:

NORMAL

EQ (TAPE SELECT)

switch:

SPECIAL

MONITOR switch:

TAPE

LINE IN control:

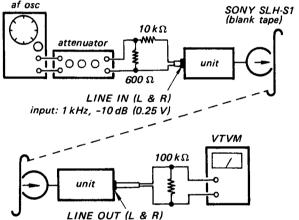
mechanical mid

PB LEVEL control:

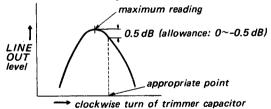
mechanical mid

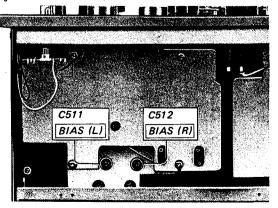
Procedure:

Mode: record and simultaneous playback



As trimmer capacitor C511 (L-channel) or C512 (R-channel) is slowly turned clockwise, VTVM reading will go up to a maximum and then start falling again. Adjust the capacitor until VTVM reads 0.5 dB below and beyond the maximum reading.





14. Overall Frequency Response (NORMAL RECORD EQ) Adjustment

Settings:

REEL SIZE switch: 7

TAPE SPEED switch: 19 cm 71/2

BIAS (TAPE SELECT)

switch:

NORMAL

EQ (TAPE SELECT)

switch:

NORMAL TAPE

MONITOR switch: LINE IN control:

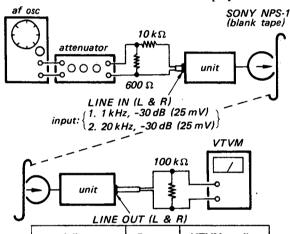
mechanical mid

PB LEVEL control:

mechanical mid

Procedure:

Mode: record and simultaneous playback



Adjust	Output	VTVM reading
L501 (L channel)	1 kHz	reference
L502 (R channel)	20 kHz	-1 dB (0.69 V)

Adjustment Location:



15. Overall Frequency Response (SPECIAL RECORD EQ) Adjustment

Settings:

REEL SIZE switch: 7

TAPE SPEED switch: 19 cm 71/2

BIAS (TAPE SELECT)

switch:

NORMAL

EQ (TAPE SELECT)

switch:

SPECIAL

MONITOR switch: T

TAPE

LINE IN control:

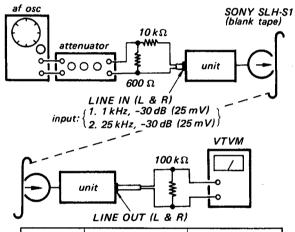
mechanical mid

PB LEVEL control:

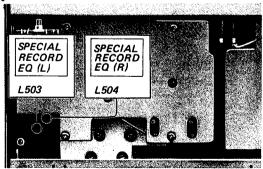
mechanical mid

Procedure:

Mode: record and simultaneous playback



	Adjust	Remarks
1 kHz	L503 (L channel)	Same LINE OUT
25 kHz	and L504 (R channel)	level at both fre- quencies.



16. Overall Frequency Response (Fe-Cr RECORD EQ) Adjustment

Settings:

REEL SIZE switch:

TAPE SPEED switch: 19 cm 71/2

BIAS (TAPE SELECT)

switch:

NORMAL

EQ (TAPE SELECT)

switch:

Fe-Cr

MONITOR switch:

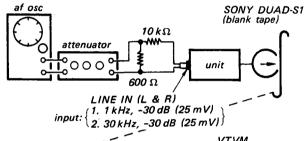
TAPE mechanical mid

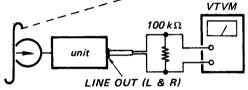
LINE IN control: PB LEVEL control:

mechanical mid

Procedure:

Mode: record and simultaneous playback





Adjust	Output	VTVM reading
L511 (L channel)	1 kHz	reference
L512 (R channel)	30 kHz	-1 dB (0.69 V)

Adjustment Location:



17. Dummy Coil Adjustment

Settings:

REEL SIZE switch:

TAPE SPEED switch: 19 cm, 7½

BIAS (TAPE SELECT)

switch:

NORMAL

EQ (TAPE SELECT)

switch:

NORMAL

MONITOR switch:

TAPE

LINE IN control:

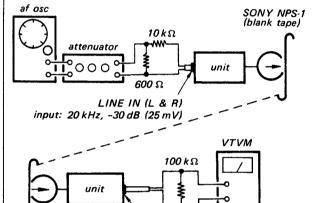
mechanical mid

PB LEVEL control:

mechanical mid

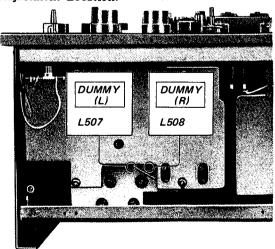
Procedure:

Mode: record and simultaneous playback



Step	Mode	Adjust	Remarks
1	stereo record and simultaneous playback		
2	L channel record and simultaneous playback	L508	same VTVM reading
3	R channel record and simultaneous playback	L507	

LINE OUT (L & R)



18. Record Level Adjustment Settings: REEL SIZE switch: 7 TAPE SPEED switch: 19 cm, 7½ BIAS (TAPE SELECT) NORMAL switch: EQ (TAPE SELECT) SPECIAL switch: MONITOR switch: TAPE LINE IN control: mechanical mid PB LEVEL control: mechanical mid Procedure: Mode: record and simultaneous playback SONY SLH-S1 (blank tape) af osc 10 kΩ attenuator LINE IN (L & R) input: 1 kHz, -10 dB (0.25 V) VTVM 100 kΩ LINE OUT (L & R) VTVM reading R125 (L channel) - 5 dB (0.44 V) R225 (R channel) Adjustment Location: R225 R125

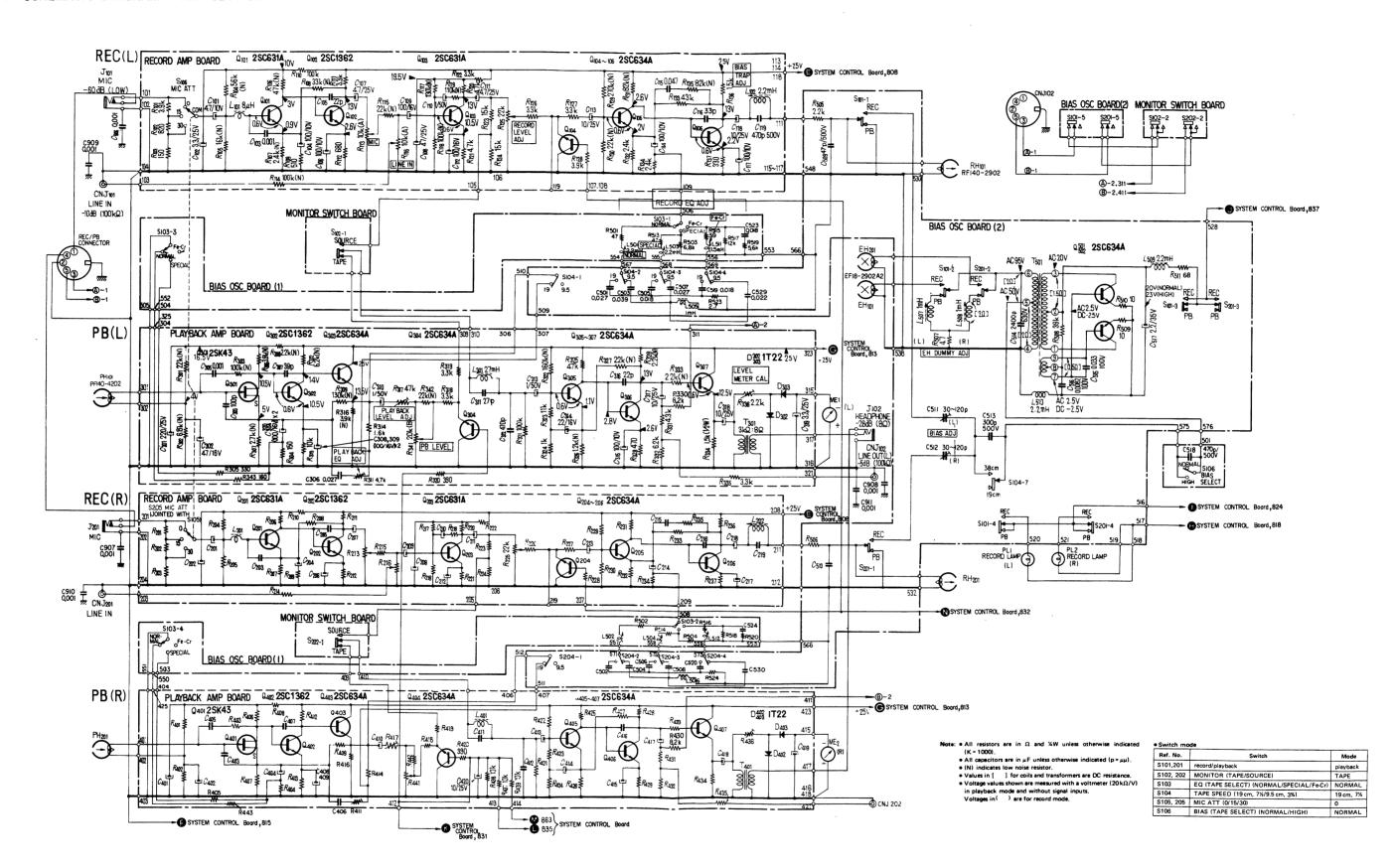
RECORD LEVEL (R)

RECORD LEVEL (L)

TC-755A TC-755A

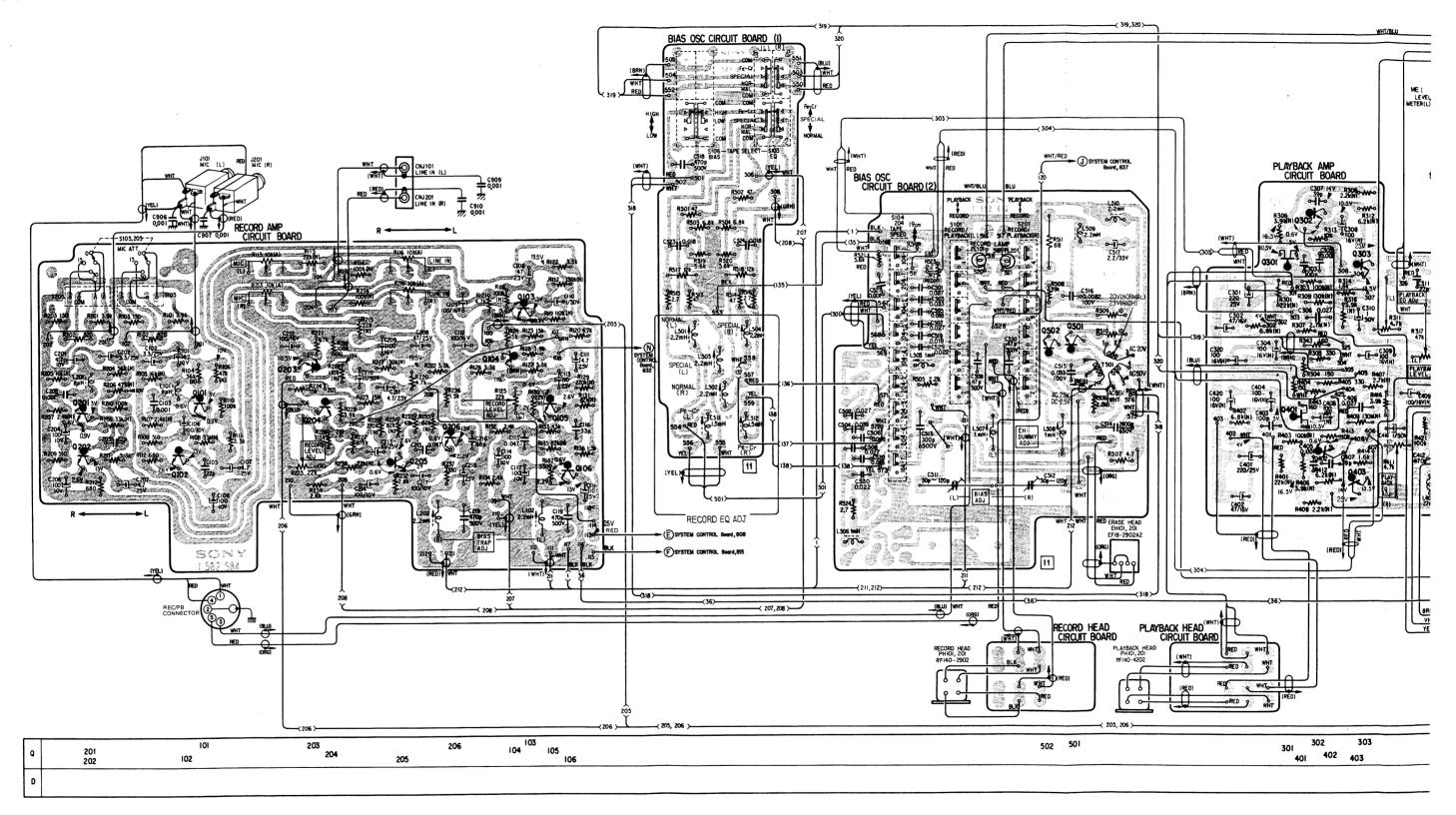
MEMO

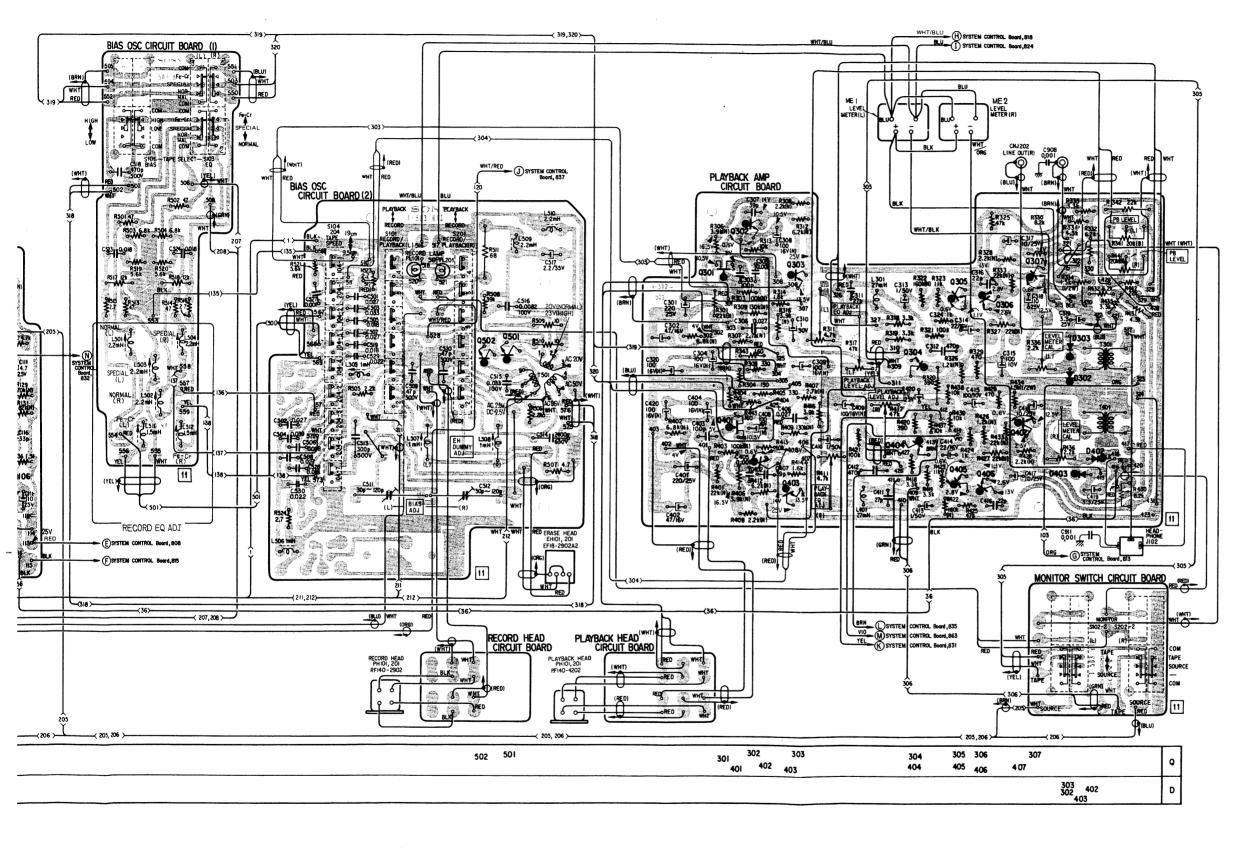
3-1. SCHEMATIC DIAGRAM - AMP SECTION -



3-2. MOUNTING DIAGRAM - AMP SECTION -

- Conductor Side -





2SC631A: { Q101,103 Q201,203

2SC634A: Q104,105,106 Q204,205,206 Q303,304,305 Q306,307 Q403,404,405 Q406,407 Q501,502



2SC1362: Q302,402

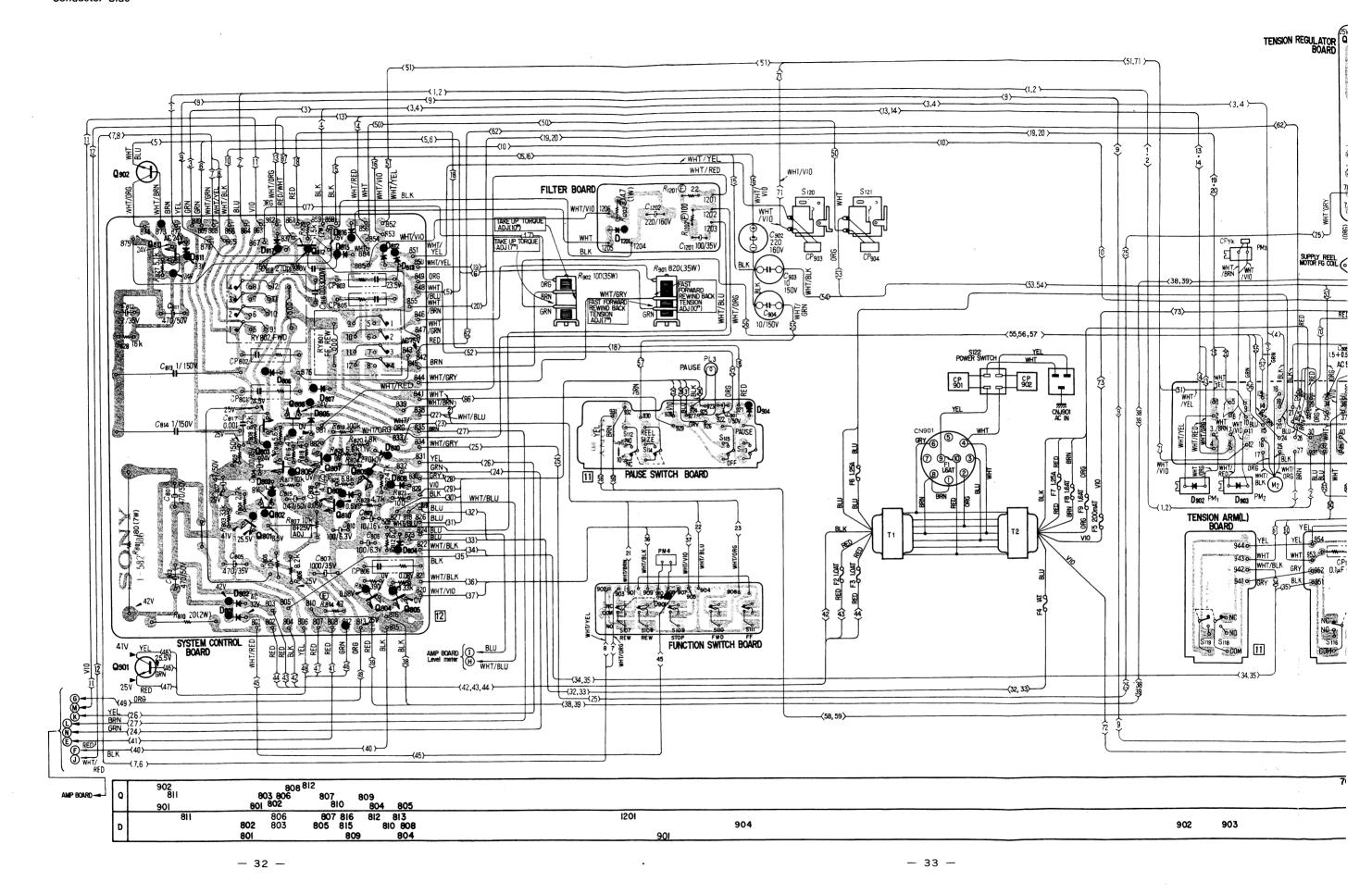


2SK43: Q301,401

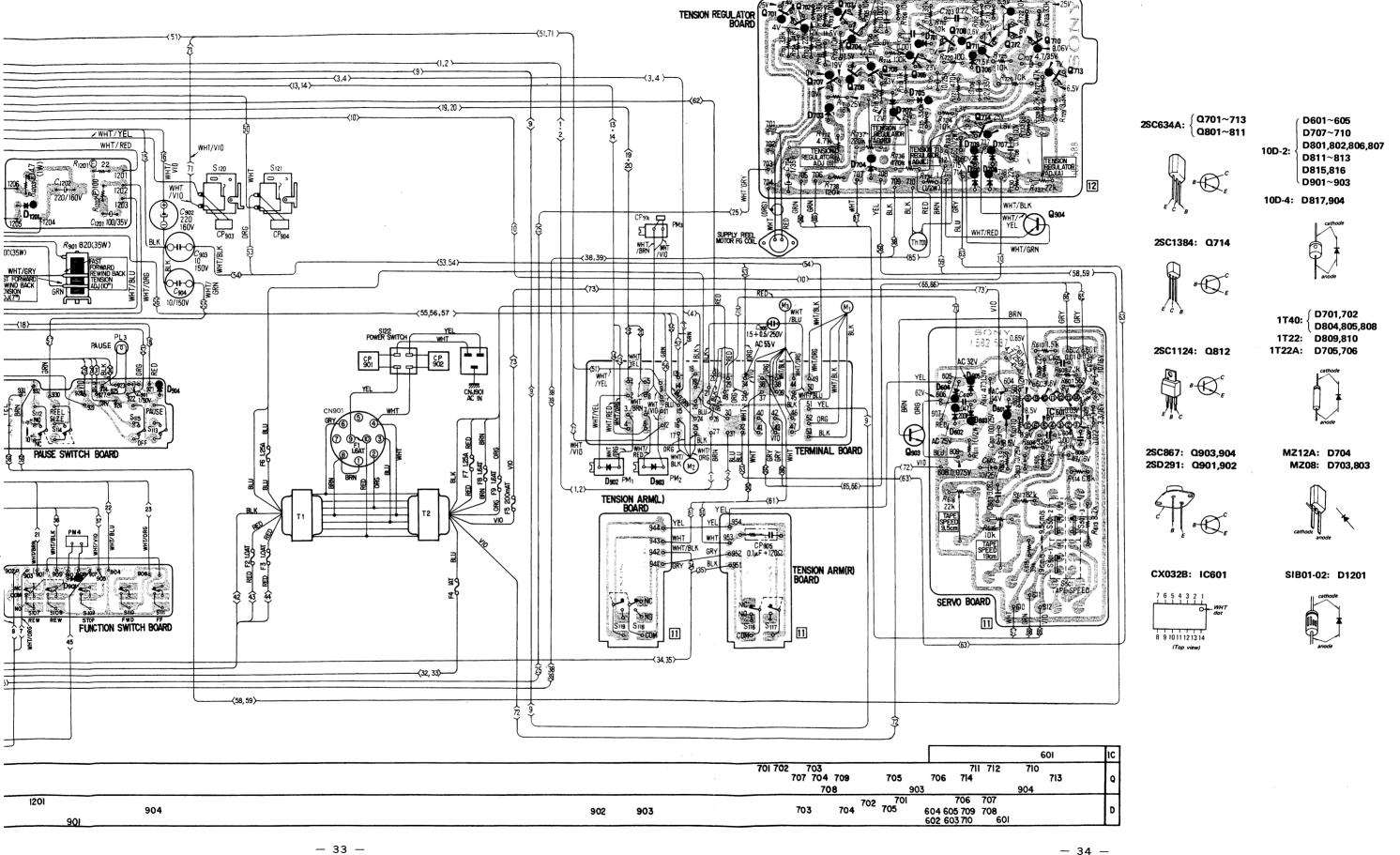




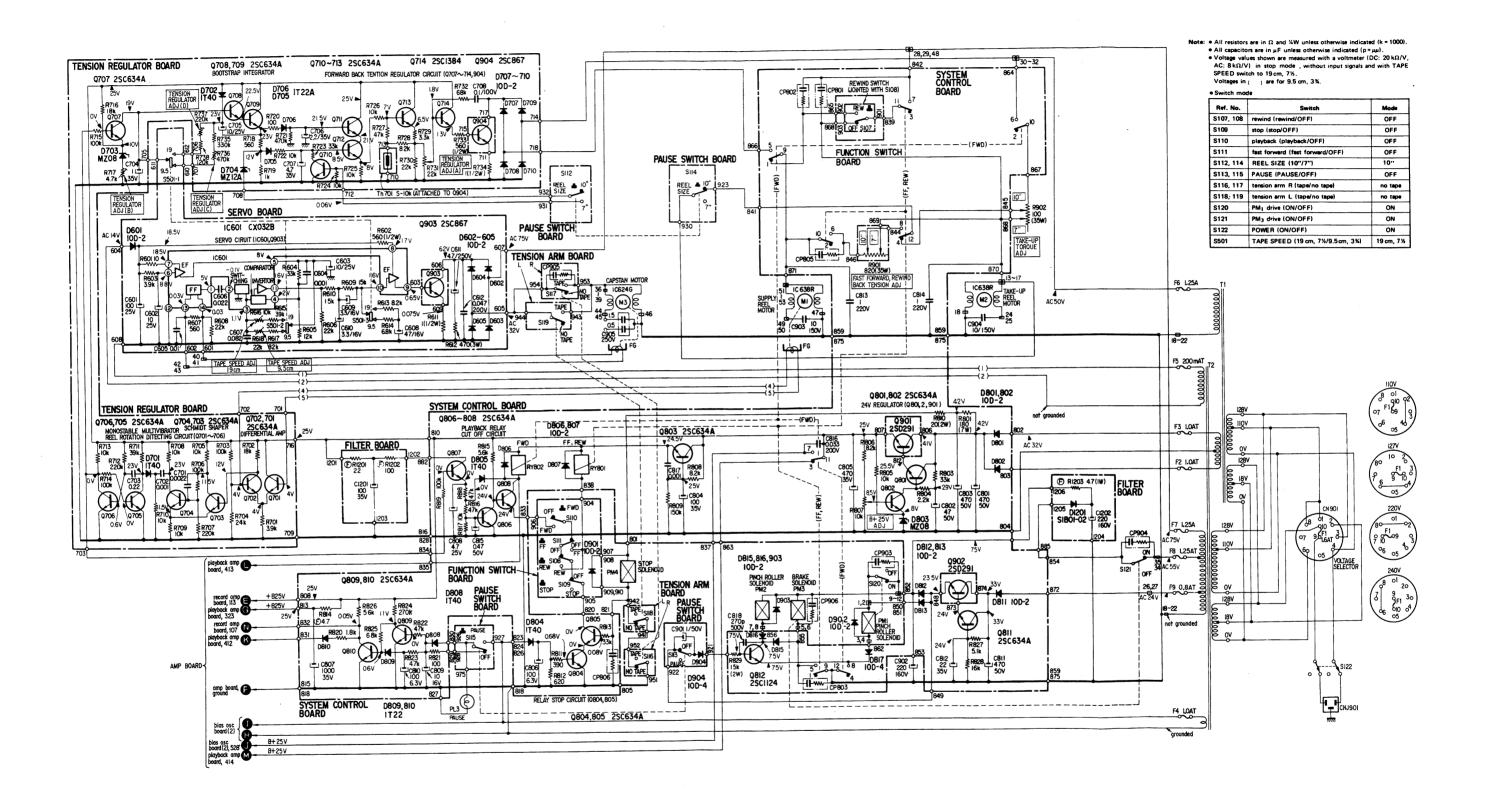
- Conductor Side -



TC-755A TC-755A

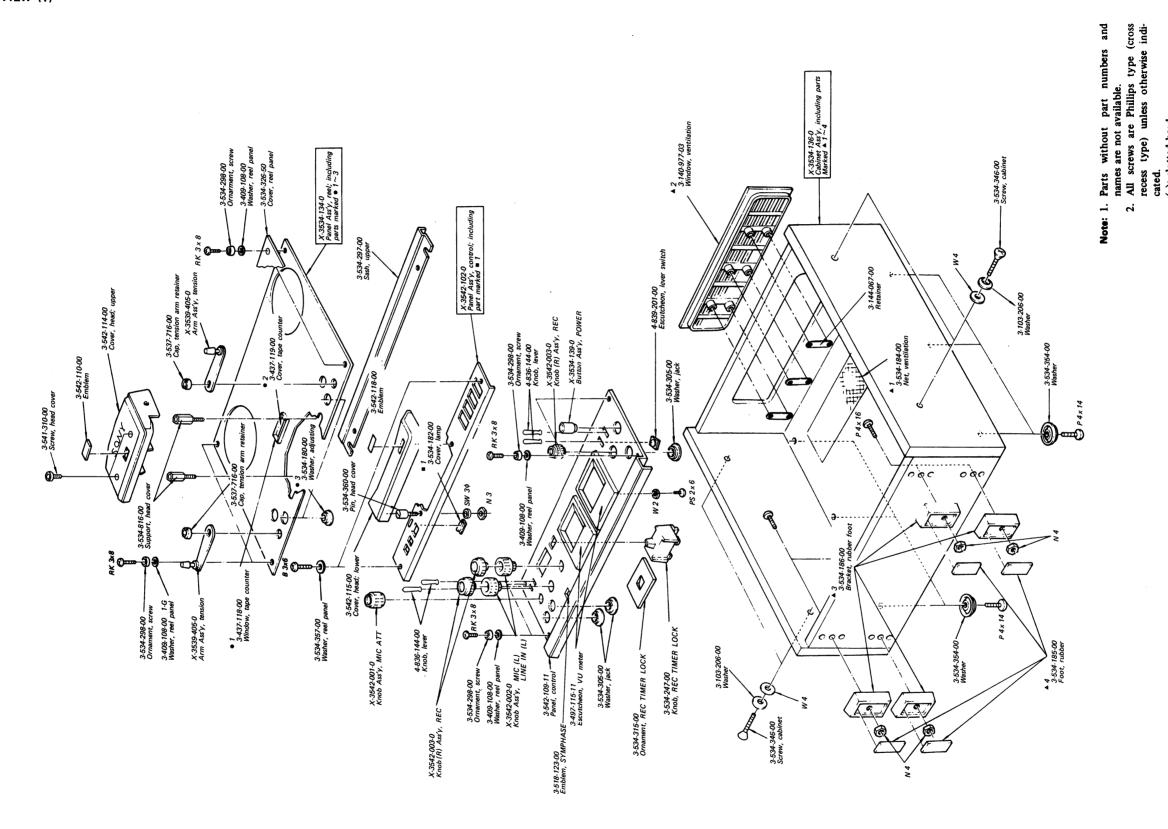


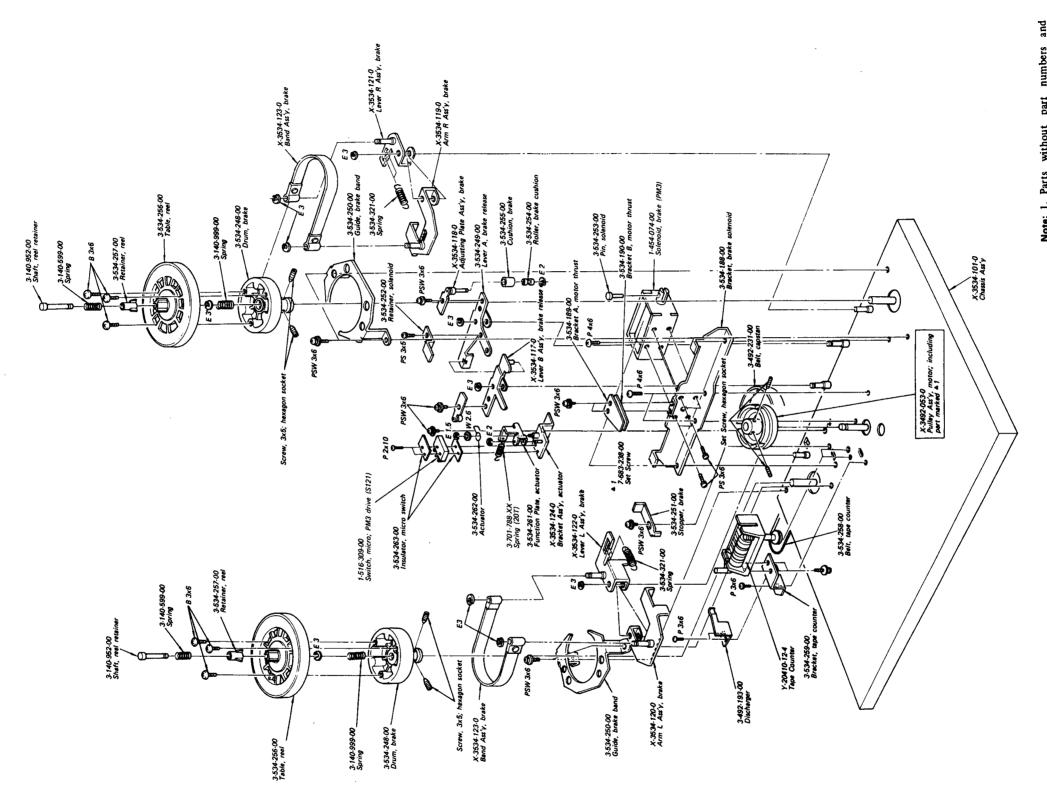
3-4. SCHEMATIC DIAGRAM - SYSTEM CONTROL SECTION -



SECTION 4 EXPLODED VIEWS AND PACKING

4-1. EXPLODED VIEW (1)



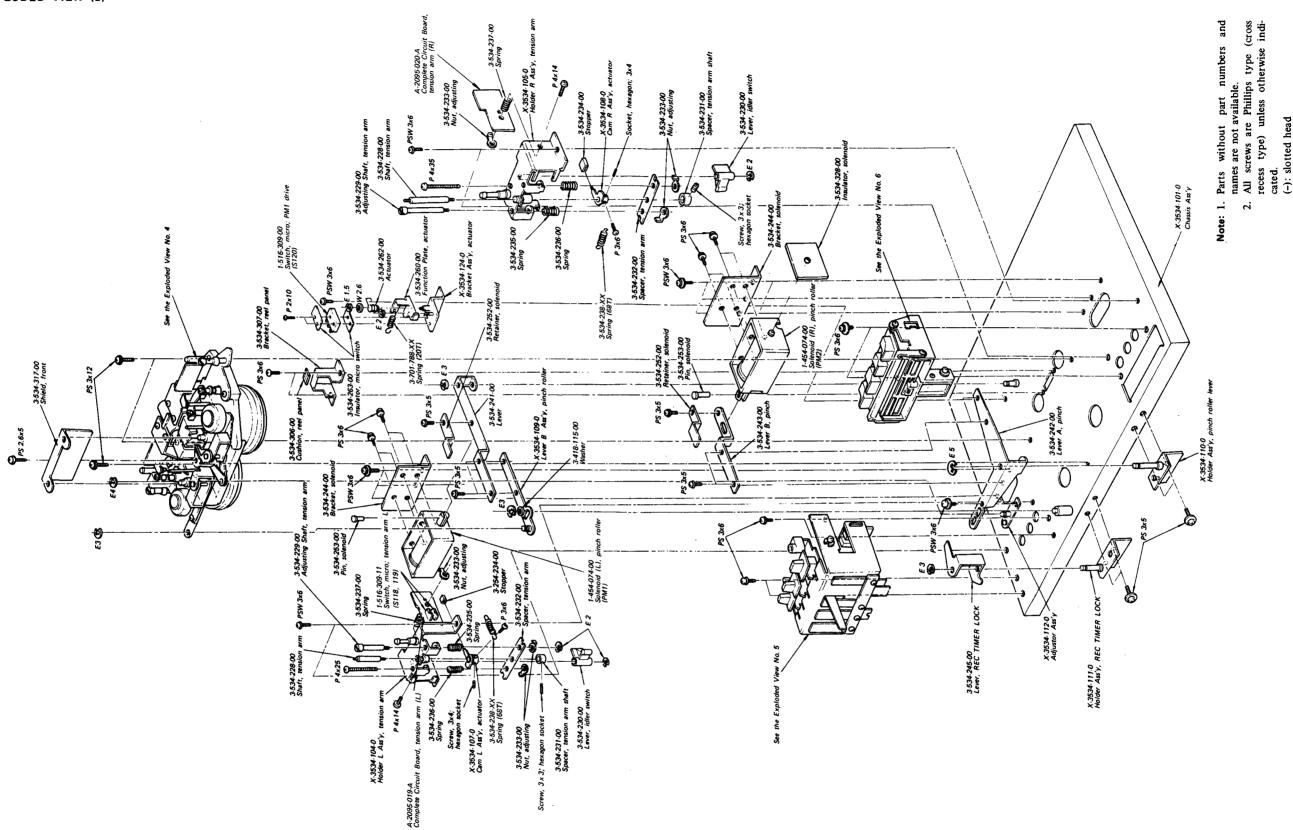


names are not available.

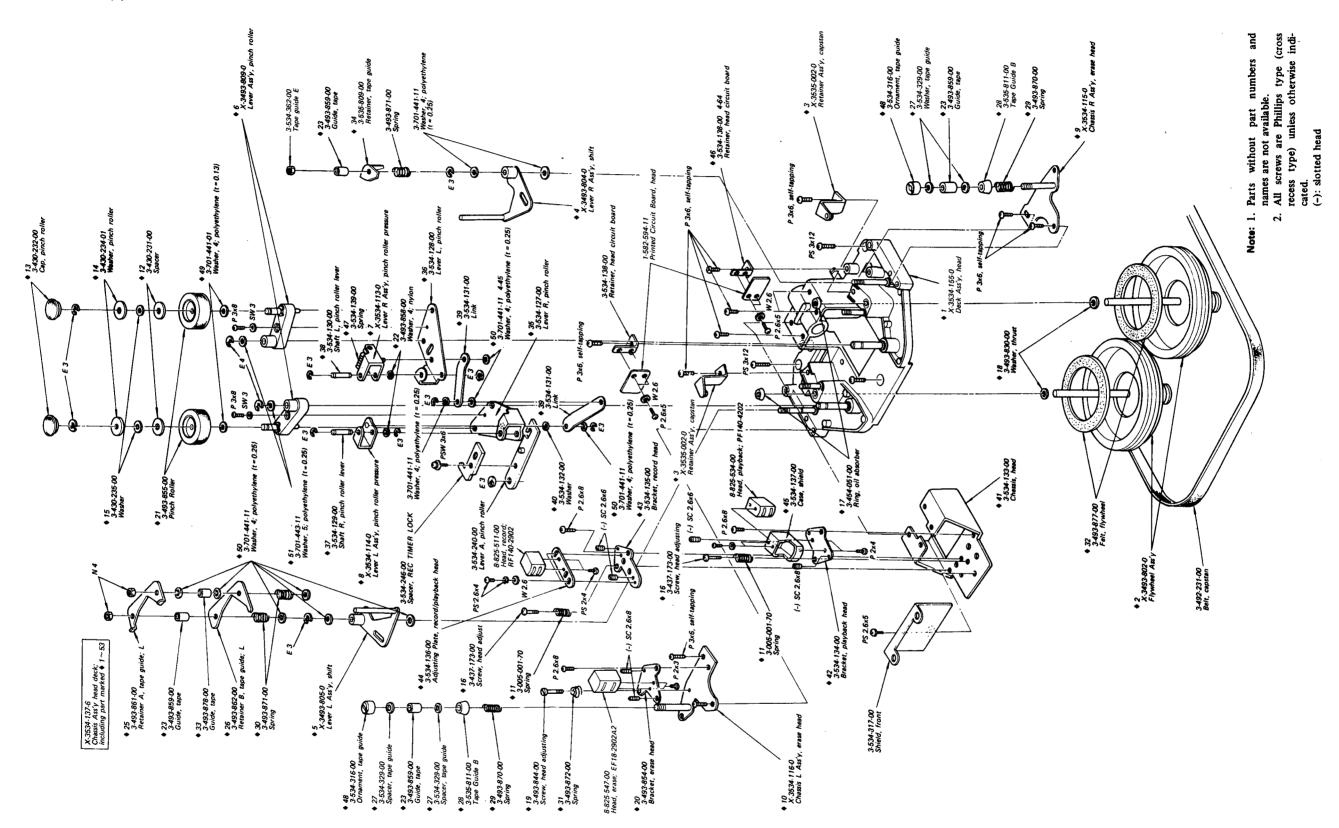
2. All screws are Phillips type (cross recess type) unless otherwise indi-

- 40 -

4-3. EXPLODED VIEW (3)

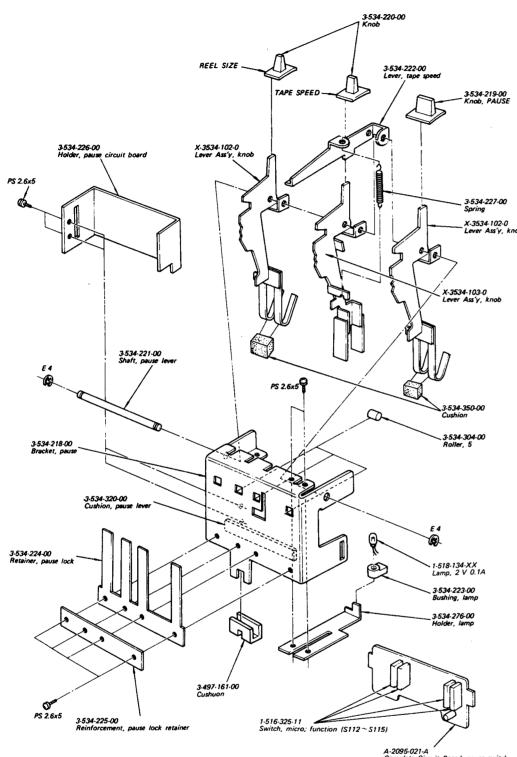


-4. EXPLODED VIEW (4)



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4-5. EXPLODED VIEW (5)

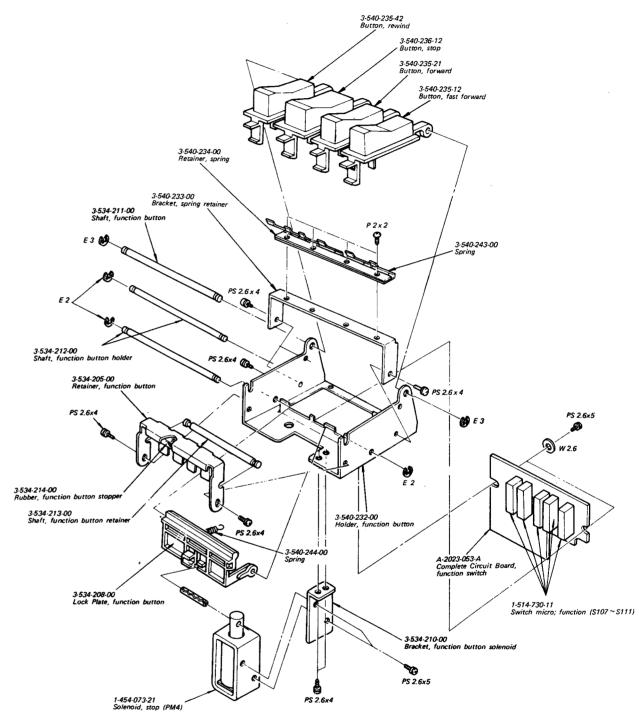


Note: 1. Parts without part numbers and names are not available.

2. All screws are Phillips type (cross recess type) unless otherwise indicated.

(-): slotted head

4-6. EXPLODED VIEW (6)

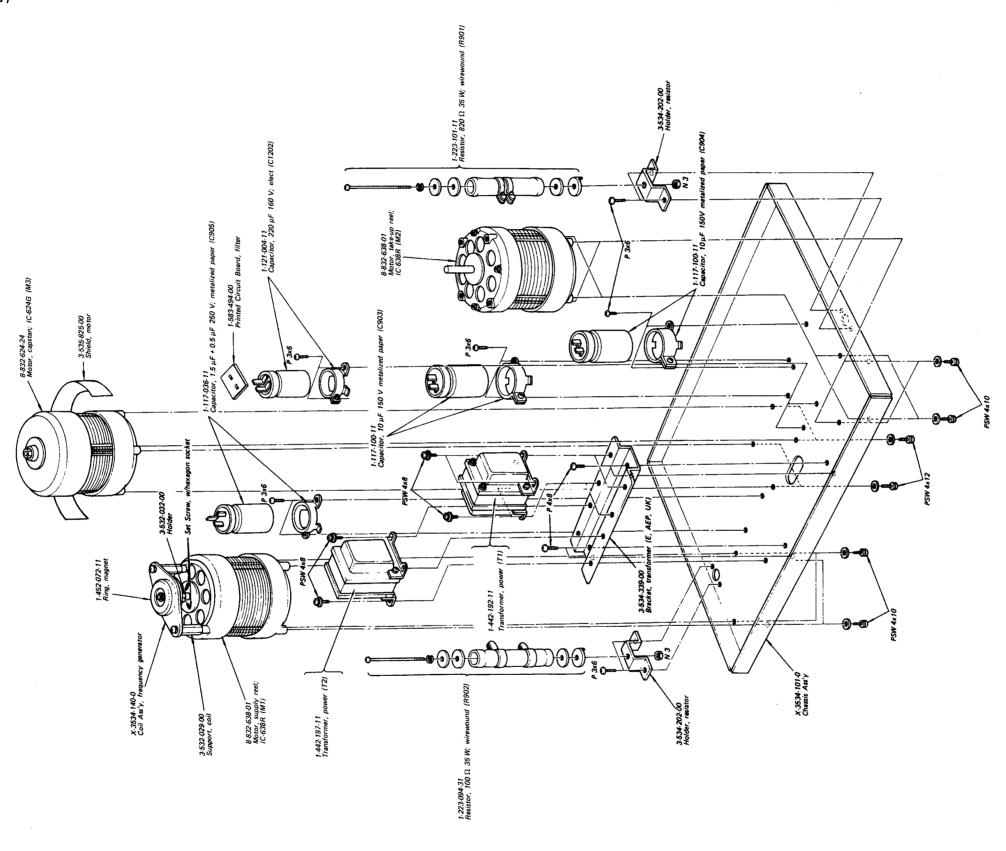


Note: 1. Parts without part numbers and names are not available.

- 2. All screws are Phillips type (cross recess type) unless otherwise indicated.
 - (-): slotted head

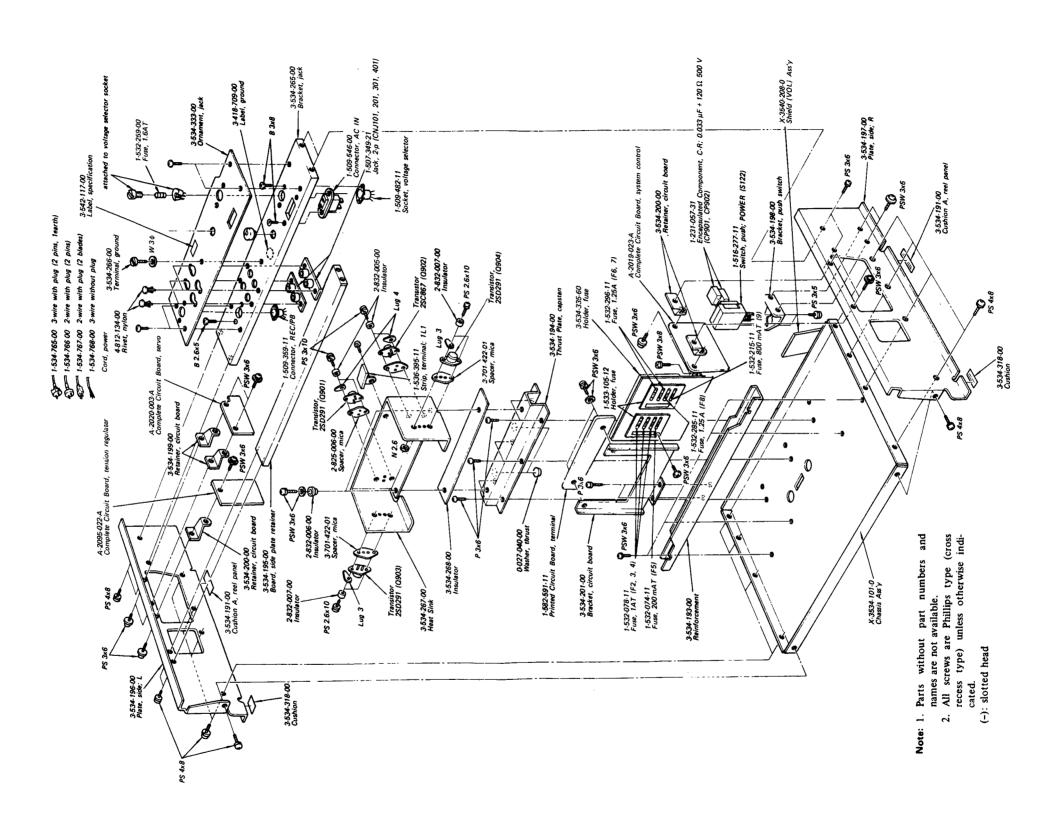
- 45 -

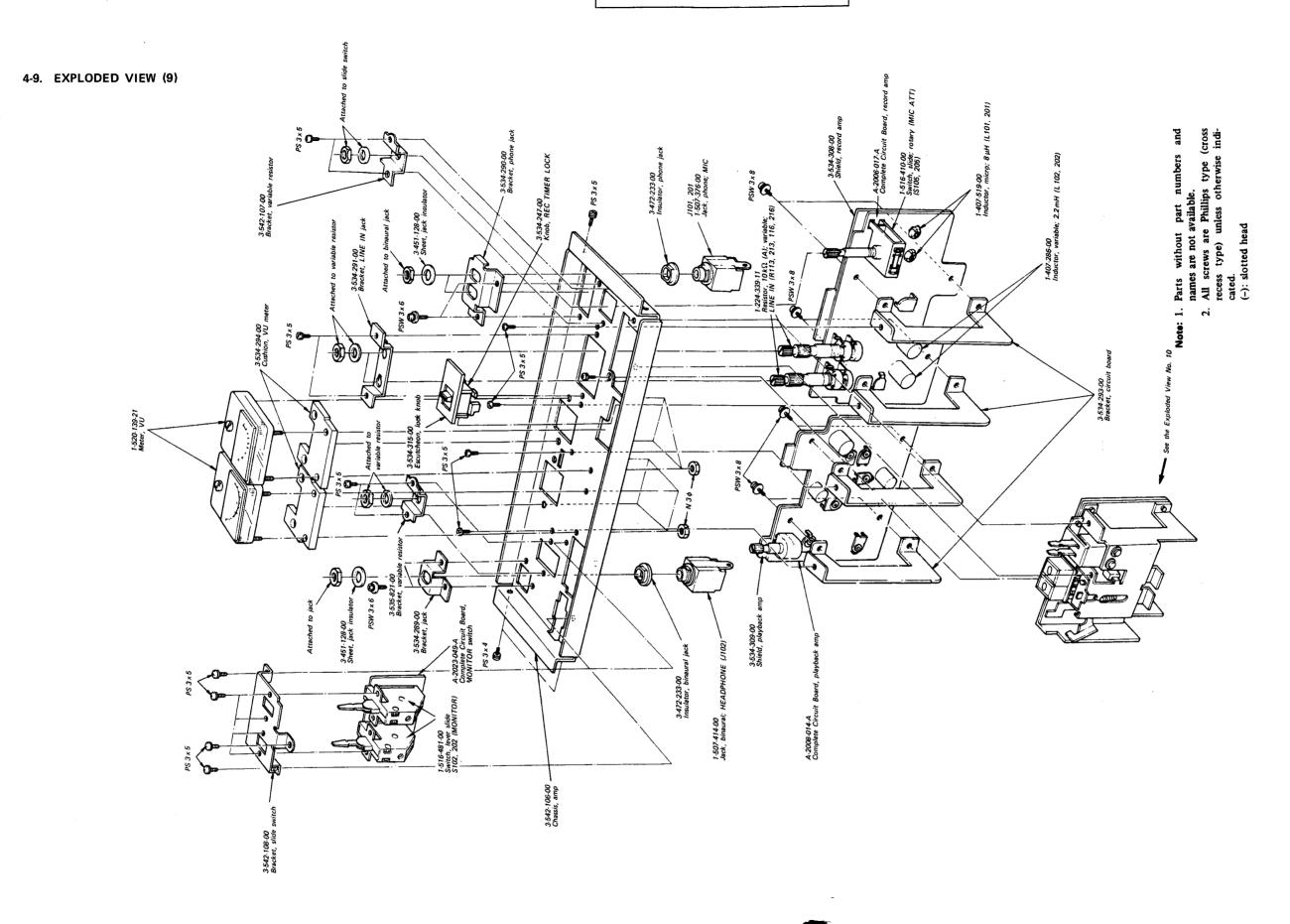
4-7. EXPLODED VIEW (7)



- 47 -

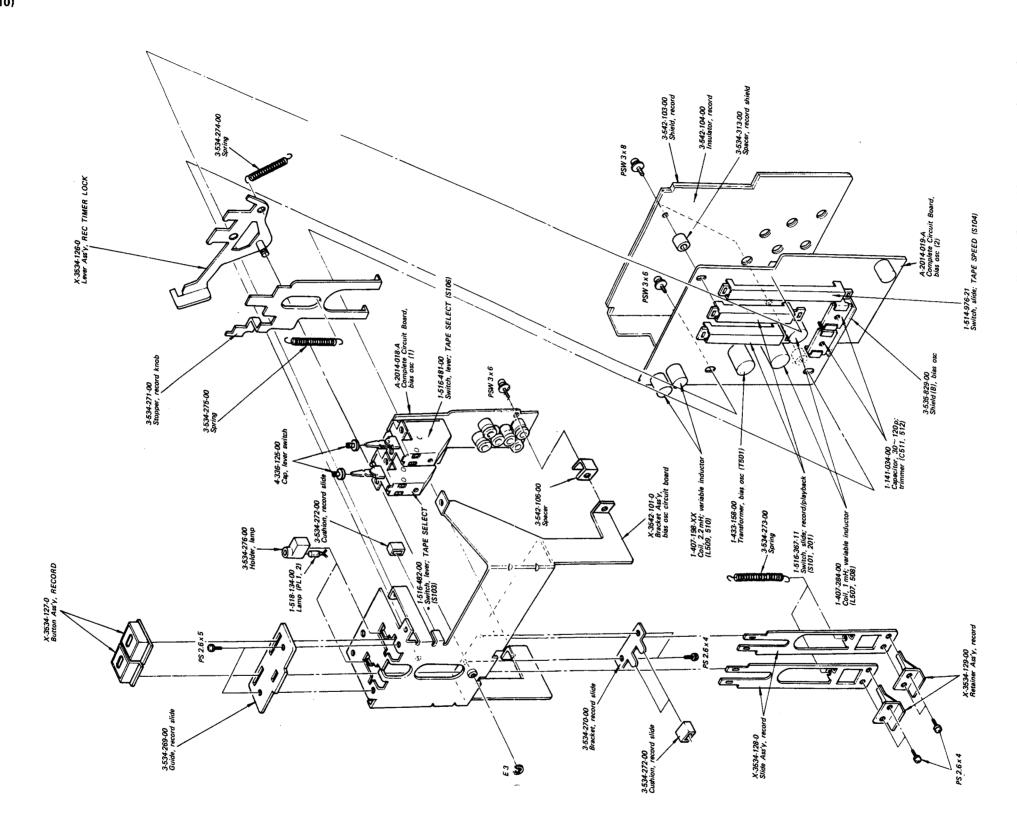
4-8. EXPLODED VIEW (8)





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4-10. EXPLODED VIEW (10)



Note: 1. Parts without part numbers and names are not available.

2. All screws are Phillips type (cross recess type) unless otherwise indicated.

(-): slotted head

SECTION 5 ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	COMPLETE CI	RCUIT BOARDS	Q701	2SC634A	
			Q702	2SC634A	
	A-2095-020-A	Tension Arm (R)	Q703	2SC634A	
	A-2095-019-A	Tension Arm (L)	Q704	2SC634A	
	A-2019-023-A	System Control	Q705	2SC634A	
	A-2020-003-A	Servo	C . 33	20000	
	A-2095-022-A	Tension Regulator	Q706	2SC634A	
		-	Q707	2SC634A	
	A-2023-053-A	Function Switch	Q708	2SC634A	
	A-2095-021-A	Pause Switch	Q709	2SC634A	
	A-2006-017-A	Record Amp	Q710	2SC634A	
	A-2008-014-A	Playback Amp			
	A-2023-049-A	MONITOR Switch	Q711	2SC634A	
			Q712	2SC634A	
	A-2014-018-A	Bias osc (1)	Q713	2SC634A	
	A-2014-019-A	Bias osc (2)	Q714	2SC1384	
			Q801	2SC634A	
			Q802	2SC634A	
	PRINTED CII	RCUIT BOARDS	Q803	2SC634A	
			Q804	2SC634A	
	1-583-494-00	Filter	Q805	2SC634A	
	1-582-594-11	Head			
	1-582-591-11	Terminal	Q806	2SC634A	
		•	Q807	2SC634A	
			Q808	2SC634A	
			Q809	2SC634A	
	SEMICO	NDUCTORS	Q810	2SC634A	
			Q811	2SC634A	
	Tran	nsistors	Q812	2SC1124	
O101 201		2506214	0001	000001	
Q101,201 Q102,202		2SC631A 2SC1362	Q901	2SD291	
Q102,202 Q103,203		2SC631A	Q902	2SD291	
		2SC634A	Q903	2SC867	
Q104,204 Q105,205		2SC634A	Q904	2SC867	
Q105,205 Q106,206		2SC634A			
Q100,200		ZBCUJHA			
Q301,401		2SK43		IC	
Q302,402		2SC1362			
Q303,403		2SC634A	IC601	CX032B	
Q304,404		2SC634A			
Q305,405		2SC634A			
0205 405		2006244			
Q306,406		2SC634A		Diodes	
Q307,407		2SC634A	D202 402		
Q501		2SC634A	D302,402	1T22	
Q502		2SC634A	D303,403	1T22	

Ref. No.	Part No.	Description	Ref. No.	Part No.		Desc	cription
D601		10D-2		C	DILS		
D602		10D-2					
D603		10D-2	L101,201	1-407-519-11	Inductor	, micro	8 μΗ
D604		10D-2	L102,202	1-407-286-11	Inductor	, variab	ole 2.2 mH
D605		10D-2	L301,401	1-407-593-11	Microind	uctor,	27 mH
D701		1 T40	L501	1-407-269-11	Inductor	, variab	ole 2.2 mH
D702		1 T4 0	L502	1-407-269-11			ole 2.2 mH
D703,803		MZ08	L503	1-407-269-11			ole 2.2 mH
D704		MZ12A	L504	1-407-269-11	Inductor	, variab	ole 2.2 mH
D705		1T22A	L505	1-407-492-11	Inductor	, micro	1 mH
D706		1T22A	L506	1-407-492-11	Inductor	, тісго	1 mH
D707		10D-2	L507	1-407-284-11	Inductor	, variab	ole 1 mH
D708		10D-2	L508	1-407-284-11	Inductor	, variat	ole 1 mH
D709		10D-2	L509	1-407-198-XX	Inductor	, micro	2.2 mH
D710		10D-2	L510	1-407-198-XX	Inductor	, micro	2.2 mH
D801		10D-2	L511	1-407-268-11	Inductor	, variat	ole 1.5 mH
D802		10D-2	L512	1-407-268-11			ole 1.5 mH
D804		1T40					
D805		1T40					
D806		10D-2					
				TRANS	FORMERS	3	
D807		10D-2					
D808		1T40	T1	1-442-192-11	Power		
D809		1T22	Т2	1-442-197-11	Power		
D810		1T22					
D811		10D-2	T301,401	1-427-299-11	Headpho	ne	•
			T501	1-433-158-11	Bias Osc		
D812		10D-2					
D813		10D-2					
D815		10D-2					
D816		10D-2		CAPA	CITORS		
D817		10D-4	A 11 .c	apacitors are in ,	F unless	sthorwi	se noted
D901		10D-2	50 o	r less working vo	lts are om	itted ex	ccept for
D902		10D-2	elect	rolytic type. (p=	μμF, elect	=electr	olytic)
D903		10D-2					
D904		10D-4	C101,201	1-131-192-11	4.7		solid tantalum
			C102,202	1-121-913-11	3.3	25 V	elect
D1201		S1B01-02	C103,203	1-108-825-61	0.001		mylar
			C104,204	1-121-414-51	100	10 V	elect
			C105,205	1-102-967-11	22 p		ceramic
	THER	MISTOR	C106,206	1-121-414-51	100	10 V	elect
			C107,207	1-121-915-51	4.7	25 V	
mu # 0.4	1-800-204-11	Thermistor S10K	C108,208	1-121-410-51	47		elect
Th701	1-000-204-11	THE HISTOR					CICCL

Ref. No.	Part No.		Desc	cription	Ref. No.	Part No.		Desc	cription
C109,209	1-121-415-51	100	16 V	elect	C511	1-141-034-11	30~120	n	trimmer
C110,210	1-121-391-51	1	50 V	elect	C512	1-141-034-11	30~120	_	trimmer
C111,211	1-121-915-51	4.7	25 V	elect	C513	1-107-180-11	300 p	•	silvered mica
C112,212	1-121-415-51	100	16 V	elect	C514	1-129-992-51	2400 p	630 V	polypropylene
C113,213	1-121-748-51	10	25 V	elect	C515	1-105-719-12	0.033	100 V	mylar
C114,214	1-121-414-51	100	$10\mathrm{V}$	elect	C516	1-105-712-12	0.0082	100 V	mylar
C115,215	1-105-681-51	0.047		mylar	C517	1-131-217-51	2.2		solid tantalum
C116,216	1-107-119-51	33 p		silvered mica	C518	1-107-185-11	470 p	500 V	silvered mica
C117,217	1-121-414-51	100	10 V	elect	C519	1-105-516-12	0.018		mylar
C118,218	1-121-398-51	10	25 V	elect	C520	1-105-516-12	0.018		mylar
C119,219	1-107-016-11	470 p	500 V	silvered mica					
					C523	1-105-516-12	0.018		mylar
C301,401	1-121-422-51	220	25 V	elect	C524	1-105-516-12	0.018		mylar
C302,402	1-123-055-51	47	16 V	elect	C529	1-105-517-12	0.022		mylar
C303,403	1-107-131-51	100 p		silvered mica	C530	1-105-517-12	0.022		mylar
C304,404	1-123-139-51	100	16 V						
C305,405	1-108-825-61	0.001		mylar	C601	1-121-935-51	100	25 V	elect
					C602	1-121-398-51	10	25 V	elect
C306,406	1-108-842-61	0.027		mylar	C603	1-121-398-51	10	25 V	elect
C307,407	1-107-121-51	39 p		silvered mica	C604	1-105-661-51	0.001		mylar
C308,408	1-123-139-51	100	16 V	elect	C605	1-105-673-51	0.01		mylar
C309,409	1-123-139-51	100	16 V	elect					
C310,410	1-121-912-51	1	50 V	elect	C606	1-105-677-51	0.022		mylar
					C607	1-108-550-11	0.082		mylar
C311,411	1-107-117-51	27 p		silvered mica	C608	1-121-409-51	47	16 V	elect
C312,412	1-107-244-51	470 p	***	silvered mica	C609	1-131-197-51	3.3		solid tantalum
C313,413	1-121-912-51	1	50 V	elect	C610	1-131-197-51	3.3		solid tantalum
C314,414	1-121-479-51	22	16 V	elect	0(11	1 101 000 11	4.5	25077	
C315,415	1-121-414-51	100	10 V	elect	C611	1-121-900-11	4.7	250 V	elect
C316,416	1-107-115-51	22 p		silvered mica	C612	1-105-761-12	0.047	200 V	mylar
C317,417	1-107-113-51	22 p 10	25 V	elect	C701 C702	1-105-665-51 1-105-501-12	0.0022 0.001		mylar
C318,418	1-121-398-51	10	25 V	elect	C702	1-105-501-12	0.001		mylar mylar
C319,419	1-121-392-51	3.3	25 V	elect	C703	1-103-329-12	0.22		шуш
C320,420	1-123-139-51	100	16 V		C704	1-131-215-51	1		solid tantalum
0520,120	1 123 137 51	100	10 1	Cicci	C705	1-131-238-51	10		solid tantalum
C501	1-105-518-12	0.027		mylar	C706	1-131-217-51	2.2		solid tantalum
C502	1-105-518-12	0.027		mylar	C707	1-131-219-51	4.7		solid tantalum
C503	1-105-520-12	0.039		mylar	C708	1-105-725-51	0.1	100 V	mylar
C504	1-105-520-12	0.039		mylar					,
C505	1-105-516-12	0.018		mylar	C801	1-121-983-51	470	50 V	elect
				•	C802	1-121-411-51	47	50 V	elect
C506	1-105-516-12	0.018		mylar	C803	1-121-810-51	470	50 V	elect
C507	1-105-518-12	0.027		mylar	C804	1-121-357-51	100	35 V	elect
C508	1-105-518-12	0.027		mylar	C805	1-121-361-51	470	35 V	
C509	1-107-015-11	47 p	500 V	silvered mica					
C510	1-107-015-11	47 p	500 V	silvered mica	C806	1-121-980-11	100	6.3 V	elect
					1				

Ref. No.	Part No.		Desc	ription	Ref. No.	Part No.	De	scription
C807	1-121-388-51	1000	35 V	elect	R116,216	1-224-339-11	10 k (A), varia	hler I INE IN
C808	1-121-961-11	4.7	25 V		R117,217	1-242-724-71	130 k	low noise
C809	1-121-651-51	10	16 V		R118,218	1-242-721-71	100 k	low noise
C810	1-121-980-11	100	6.3 V		R119,219	1-242-722-71	110 k	low noise
C811	1-121-983-51	470`	50 V		R125,225	1-222-775-11	22 k (B), adjus	
					·			
C812	1-121-662-51	22	35 V	elect	R129,229	1-242-731-71	270 k	low noise
C813	1-113-072-11	1	220 V	metalized paper	R130,230	1-242-705-71	22 k	low noise
C814	1-113-072-11	1	220 V	metalized paper	R131,231	1-242-719-71	82 k	low noise
C815	1-121-726-51	0.47	50 V	elect	R135,235	1-242-719-71	82 k	low noise
C816	1-105-919-12	0.033	200 V	mylar				
					R301,401	1-242-705-71	22 k	low noise
C817	1-105-821-12	0.001		mylar	R302,402	1-242-693-71	6.8 k	low noise
C818	1-107-179-11	270 p	500 V	silvered mica	R303,403	1-242-721-71	100 k	low noise
C901	1-121-391-11	1	50 V	elect	R306,406	1-242-687-71	3.9 k	low noise
C902	1-121-004-12	220	160 V	elect	R307,407	1-242-683-71	2.7 k	low noise
C903	1-117-100-11	10	150 V	metalized paper				
					R308,408	1-242-681-71	2.2 k	low noise
C904	1-117-100-11	10	150 V	metalized paper	R309,409	1-242-724-71	130 k	low noise
C905	1-117-036-22	1.5+0.5	250 V	metalized paper	R311,411	1-224-644-XX	4.7 k (B), adju	stable
C906	1-101-455-11	0.001		ceramic	R312,412	1-242-692-71	6.2 k	low noise
C907	1-101-455-11	0.001		ceramic	R316,416	1-242-687-71	3.9 k	low noise
C908	1-101-455-11	0.001		ceramic				
					R317,417	1-224-647-XX	47 k (B), adjus	table
C909	1-101-455-11	0.001		ceramic	R322,422	1-242-726-71	160 k	low noise
C910	1-101-455-11	0.001		ceramic	R326,426	1-242-675-71	1.2 k	low noise
C911	1-101-455-11	0.001		ceramic	R327,427	1-242-705-71	22 k	low noise
C1201	1-121-357-11	100	35 V		R328,428	1-242-681-71	2.2 k	low noise
C1202	1-121-004-11	220	160 V	elect				
					R333,433	1-242-705-71	22 k	low noise
					R334,434	1-244-877-11	1.5 k ½ W	
					R336,436	1-224-643-XX	2.2 k (B), adju	
	RESI	STORS			R341,441	1-224-338-11		ble; PB LEVEL
					R342	1-244-705-71	22 k	low noise
	esistors are in Ω. ept particular typ	-		n resistors	R442	1-242-705-71	22 k	low noise
Chec	k schematic diag	rams for r	esistanc	e values.	R511	1-217-397-11	68	fuse
(k = 1)	1000 M = 1000 k)			R602	1-244-867-11	560 ½ W	Tusc
					R611	1-244-801-11	1 ½W	
R104,204	1-242-715-71	56 k		low noise	R612	1-206-717-11	470 3 W	metal oxide
R105,205	1-242-702-71	16 k		low noise	R616	1-224-645-XX	10 k (B), adjus	
R105,205	1-242-702-71	47 k		low noise	KOTO	1-22 7- 073-AA	TOR (D), aujus	taut
R100,200	1-242-713-71	4 / K 2.4 k		low noise	R618	1-224-646-XX	22 k (P) adina	table
R107,207	1-242-709-71	2.4 K 33 k		low noise	R717	1-224-646-XX 1-224-644-XX	22 k (B), adjus	
11100,200	1-272-107-11	33 K		IOW HOISE	1	1-224-644-XX 1-224-646-XX	4.7 k (B), adju	
R113,213	1-224-339-11	10 k(A)	variah!	e: MIC	R731		22 k (B), adjus	Lauic
R113,213 R114,214	1-242-721-71	10 k(A)	, variaul	e; MIC low noise	R733 R734	1-244-867-11	560 ½ W 1 ½ W	
R114,214 R115,215	1-242-721-71	100 k 22 k				1-244-801-11		atable
K115,413	1-2-2-103-11	44 K		low noise	R736	1-224-650-XX	470 k (B), adju	istaute

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R737	1-222-778-11	220 k (B), adjustable	CP803	1-231-057-31	
R801	1-207-992-11	180 7 W wirewound	0.000	201 00 / 01	
R807	1-224-645-XX	10k (B), adjustable	CP805	1-231-057-31	•
R810	1-206-470-11	20 2W metal oxide	CP806	1-231-057-31	
R814	1-217-383-11	4.7 fuse	CP903	1-101-534-31	
R829	1-244-877-11	1.5 k ½ W	CP904	1-101-534-31	
R901	1-223-101-11	820, wirewound; adjustable	CP905	1-101-534-31	
R902	1-223-094-31	100, wirewound; adjustable	CP906	1-101-534-31	
R1201	1-217-391-11	22 fuse			
R1202	1-217-399-11	100 fuse	i		
R1203	1-217-477-11	4.7 1 W fuse		JA	CKS
			*****		P
			J101,201	1-507-376-11	Phono, MIC
	CIVII.	TCHES	J102	1-507-414-11	Binaural, HEADPHONE
	3441	iones		1-509-359-11	Connector, REC/PB
S101,201	1-516-367-11	Slide, record/playback	CNJ901	1-509-546-00	Connector, AC IN
\$102,202	1-516-481-11	Slide, MONITOR	CN901	1-509-482-11	Socket, voltage selector
S103	1-516-482-11	Slide, EQ (TAPE SELECT)		1-507-349-21	2 p phono, LINE IN
S104	1-514-976-21	Slide, TAPE SPEED	1	1-507-349-21	2 p phono, LINE OUT
\$105,205	1-516-410-11	Rotary Slide, MIC ATT			- F F,
S106	1-516-481-11	Micro, BIAS (TAPE SELECT)	1		
S107	1-514-730-11	Micro, rewind		MISCEL	LANEOUS
S108	1-514-730-11	Micro, rewind			
S109	1-514-730-11	Micro, stop	EH101,201	8-825-547-00	Head, erase; EF18-2902A2
S110	1-514-730-11	Micro, playback			
			F1	1-532-259-00	Fuse, 1.6 AT
S111	1-514-730-11	Micro, fast forward	F2	1-532-078-11	Fuse, 1 AT
S112,114	1-516-325-11	Micro, REEL SIZE	F3	1-532-078-11	Fuse, 1 AT
\$113,115	1-516-325-11	Micro, PAUSE	F4	1-532-078-11	Fuse, 1 AT
S116	1-516-309-11	Micro, tension arm R	F5	1-532-074-11	Fuse, 200 mAT
S117	1-516-309-11	Micro, tension arm R			
S118					
2110	1 516 200 11	Missa tansian arm I	F6	1-532-296-11	Fuse, 1.25 AT
	1-516-309-11	Micro, tension arm L	F6 F7	1-532-296-11 1-532-296-11	Fuse, 1.25 AT Fuse, 1.25 AT
S119	1-516-309-11	Micro, tension arm L	į.		
S119 S120	1-516-309-11 1-516-309-11	Micro, tension arm L Micro, PM1 drive	F7	1-532-296-11	Fuse, 1.25 AT
S119 S120 S121	1-516-309-11 1-516-309-11 1-516-309-11	Micro, tension arm L Micro, PM1 drive Micro, PM3 drive	F7 F8	1-532-296-11 1-532-285-11	Fuse, 1.25 AT Fuse, 1.25 AT
S119 S120	1-516-309-11 1-516-309-11	Micro, tension arm L Micro, PM1 drive	F7 F8 F9	1-532-296-11 1-532-285-11 1-532-215-11	Fuse, 1.25 AT Fuse, 1.25 AT Fuse, 800 mAT
S119 S120 S121 S122	1-516-309-11 1-516-309-11 1-516-309-11 1-516-277-11	Micro, tension arm L Micro, PM1 drive Micro, PM3 drive Push, POWER	F7 F8	1-532-296-11 1-532-285-11	Fuse, 1.25 AT Fuse, 1.25 AT Fuse, 800 mAT Motor, supply reel; IC-638R
S119 S120 S121 S122	1-516-309-11 1-516-309-11 1-516-309-11 1-516-277-11	Micro, tension arm L Micro, PM1 drive Micro, PM3 drive Push, POWER	F7 F8 F9 M1	1-532-296-11 1-532-285-11 1-532-215-11 8-832-638-01	Fuse, 1.25 AT Fuse, 1.25 AT Fuse, 800 mAT Motor, supply reel; IC-638R Motor, take-up reel; IC-638R
S119 S120 S121 S122	1-516-309-11 1-516-309-11 1-516-309-11 1-516-277-11 1-514-673-11	Micro, tension arm L Micro, PM1 drive Micro, PM3 drive Push, POWER	F7 F8 F9 M1 M2	1-532-296-11 1-532-285-11 1-532-215-11 8-832-638-01 8-832-638-01	Fuse, 1.25 AT Fuse, 1.25 AT Fuse, 800 mAT Motor, supply reel; IC-638R
\$119 \$120 \$121 \$122 \$501	1-516-309-11 1-516-309-11 1-516-309-11 1-516-277-11 1-514-673-11	Micro, tension arm L Micro, PM1 drive Micro, PM3 drive Push, POWER Slide, TAPE SPEED	F7 F8 F9 M1 M2	1-532-296-11 1-532-285-11 1-532-215-11 8-832-638-01 8-832-638-01	Fuse, 1.25 AT Fuse, 1.25 AT Fuse, 800 mAT Motor, supply reel; IC-638R Motor, take-up reel; IC-638R
S119 S120 S121 S122 S501	1-516-309-11 1-516-309-11 1-516-309-11 1-516-277-11 1-514-673-11 ENCAPSULATE	Micro, tension arm L Micro, PM1 drive Micro, PM3 drive Push, POWER Slide, TAPE SPEED	F7 F8 F9 M1 M2 M3	1-532-296-11 1-532-285-11 1-532-215-11 8-832-638-01 8-832-638-01 8-832-624-24	Fuse, 1.25 AT Fuse, 1.25 AT Fuse, 800 mAT Motor, supply reel; IC-638R Motor, take-up reel; IC-638R Motor, capstan; IC-624G
\$119 \$120 \$121 \$122 \$501	1-516-309-11 1-516-309-11 1-516-309-11 1-516-277-11 1-514-673-11	Micro, tension arm L Micro, PM1 drive Micro, PM3 drive Push, POWER Slide, TAPE SPEED	F7 F8 F9 M1 M2 M3	1-532-296-11 1-532-285-11 1-532-215-11 8-832-638-01 8-832-638-01 8-832-624-24	Fuse, 1.25 AT Fuse, 1.25 AT Fuse, 800 mAT Motor, supply reel; IC-638R Motor, take-up reel; IC-638R Motor, capstan; IC-624G

Ref. No.	Part No.	Description
PL1	1-518-134-XX	Lamp, 2 V 0.1 A
PL2	1-518-134-XX	Lamp, 2 V 0.1 A
PL3	1-518-134-XX	Lamp, 2 V 0.1 A
PM1	1-454-074-00	Solenoid (L), pinch roller
PM2	1-454-074-00	Solenoid (R), pinch roller
PM3	1-454-074-00	Solenoid, brake
PM4	1-454-073-21	Solenoid, stop
RH101,201	8-825-511-00	Head, record; RF140-2902
RY801	1-515-127-XX	Relay
RY802	1-515-127-XX	Relay
	1 452 072 11	Dina manuat
	1-452-072-11	Ring, magnet
	1-533-105-12	Holder, fuse; 4 p
	1-536-395-11	Strip, terminal; 1L1

PS - Pan Head Screw

R - Round Head Screw

F - Flat Fillister Head Screw

Part No.	Description	
ACCESSORIES		
X-3534-138-0	Reel Ass'y, R-11B	
1-534-049-51	Cord, connection; RK-74	
3-141-188-00	Spacer, 10" reel	
3-542-008-00	Cleaning Tip	
3-542-101-00	Adaptor, reel	
3-780-831-11	Manual, instruction	

SC - Set Screw ⊜ E - Retaining Ring (E Washer)..... with Spring Washer W - Washer K - Flat Countersunk Head Screw ... SW - Spring Washer LW - Lock Washer N - Nut RK - Oval Countersunk Head Screw ... 🔷 🔎 - Example -Type of Slot T - Truss Head Screw ⊕ P 3×10

Length in mm (L) -Diameter in mm (D)

Type of Head

Sony Corporation

- Hardware Nomenclature -